

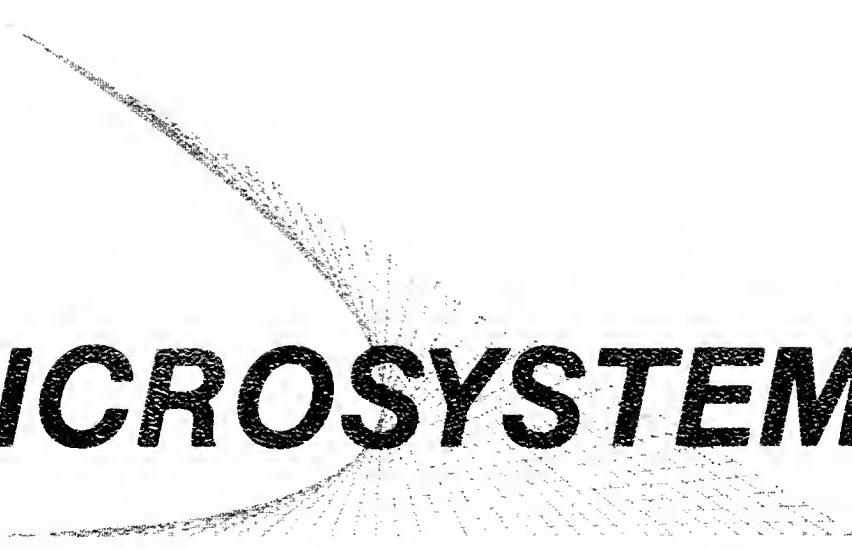


MOTOROLA

M68KVMSG/D4

## VERSAdos Messages Reference Manual

# MICROSYSTEMS



QUALITY • PEOPLE • PERFORMANCE

1

2

3



M68KVMMSG/D4

JANUARY 1986

**VERSAdos MESSAGES**

**REFERENCE MANUAL**

The information in this document has been carefully checked and is believed to be entirely reliable. However, no responsibility is assumed for inaccuracies. Furthermore, Motorola reserves the right to make changes to any products herein to improve reliability, function, or design. Motorola does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights or the rights of others.

EXORMacs, RMS68K, SYMbug, and VERSAdos are trademarks of Motorola Inc.

Fourth Edition

Copyright 1986 by Motorola Inc.

Third Edition March 1985

**MICROSYSTEMS**



#### REVISION RECORD

M68KVMSG/D3 -- March 1985. Reflects the following software levels: VERSAdos 4.4 and Link 1.8. Incorporates Addendum M68KVMSG/A1.

M68KVMSG/D4 -- January 1986. Adds error messages from VERSAdos utilities CONFIG and TRANSFER, and 1985 "summer update" utilities MERGEOS, SRCCOM, TDTIGEN1, and TTGEN. Adds logical unit numbers used by several utilities.

## TABLE OF CONTENTS

	<u>Page</u>
<b>CHAPTER 1      INTRODUCTION</b>	
1.1     SCOPE/PURPOSE .....	1
1.2     GENERAL .....	1
1.3     RELATED DOCUMENTATION .....	2
<b>CHAPTER 2      MULTI-FIELD EMH MESSAGE</b>	
2.1     MESSAGE FORMAT .....	3
2.1.1     The Header Line .....	3
2.1.1.1     The Binary Key .....	4
2.1.2     Lines After The Header .....	5
2.2     EXAMPLES .....	6
<b>CHAPTER 3      ADDITIONAL MESSAGES</b>	
3.1     GENERAL .....	13
<b>APPENDIX A      MESSAGES ACCORDING TO TASK</b>	45
APPENDIX B      ABORT CODES .....	61
APPENDIX C      FHS/IOS ERROR CODES .....	63
APPENDIX D      ERROR MESSAGE HANDLER CODES .....	71
APPENDIX E      ERRORMSG.SA FILE .....	73
APPENDIX F      PASCAL RUNTIME CODES .....	83
APPENDIX G      LINKAGE EDITOR ERROR CODES .....	87
APPENDIX H      LINKAGE EDITOR WARNING CODES .....	97
APPENDIX I      TASK MANAGEMENT DIRECTIVE CODES .....	99
APPENDIX J      ASSEMBLY ERROR CODES .....	101

## LIST OF TABLES

TABLE 2-1.    Logical Unit Assignments .....	7
--	---

THIS PAGE INTENTIONALLY LEFT BLANK.

## CHAPTER 1

### INTRODUCTION

#### 1.1 SCOPE/PURPOSE

This manual describes the error, warning, and status messages that occur in the VERSAdos environment (supporting all the Motorola-supplied utilities as well as the assembler and the Pascal language processors). Such messages occur at runtime, and are displayed normally on the terminal output device.

(Messages internal to assembly and compilation listings are treated separately in the appropriate user's/reference manual. Refer to paragraph 1.3.)

#### 1.2 GENERAL

One type of message, described in Chapter 2, has a multi-field format. The message is output by the Error Message Handler (EMH). Three examples of these messages are:

```
DIR $0049 $00000100 FROM USR ** INVALID ENTRY  
  
FREE $0049 $18000004 FROM FHS ** INVALID OR NONEXISTENT VOLUME  
CMD= ASSIGN OPT=$0000 LU=1 VOLN=ARK  
  
LIST $0049 $18000017 FROM FHS ** NONEXISTENT FILENAME  
CMD= ASSIGN OPT=$0000 LU=1  
FILE=FIX:240..FORCEM.SA
```

Other messages that occur are listed alphabetically in Chapter 3. Many of these messages are simple explanatory phrases, output either by the active task itself or by the EMH program. Examples of these messages are:

```
INVALID ENTRY  
  
WARNING - COULD NOT COPY ffffffff  
  
**FILENAME TOO LONG
```

Explanations are given when necessary.

### 1.3 RELATED DOCUMENTATION

The following publications may provide additional helpful information. If not shipped with this product, they may be obtained from Motorola Literature Distribution Center, 616 West 24th Street, Tempe, AZ 85282; telephone (602) 994-6561.

DOCUMENT TITLE	MOTOROLA PUBLICATION NUMBER
M68000 Family VERSAdos System Facilities Reference Manual	M68KVSF
VERSAdos Data Management Services and Program Loader User's Manual	RMS68KIO
M68000 Family Real-Time Multitasking Software User's Manual	M68KRMS68K
M68000 Family Resident Structured Assembler Reference Manual	M68KMASM
M68000 Family Resident Pascal User's Manual	M68KPASC
RMS68K/VERSAdos Table-Driven Task Initiator Reference Manual	M68KRMSTI
M68000 Family CRT Text Editor User's Manual	M68KEDIT
System Generation Facility User's Manual	M68KSYSGEN
SYMBug/A and DEbug Monitors Reference Manual	M68KSYMBG
M68000 Family Linkage Editor User's Manual	M68KLINK

## CHAPTER 2

## MULTI-FIELD EMH MESSAGE

**2.1 MESSAGE FORMAT**

This type of message is generated by the EMH program, resulting from a condition encountered either in another task or in the EMH program itself. It is comprised of multiple fields of information, printed on at least one line (the header), and possibly additional lines.

One form of the message may be user-generated -- FROM USR. This is described in the Error Message File Generator Program (EMFGEN) and the EMH sections of the M68000 Family VERSAdos System Facilities Reference Manual.

**2.1.1 The Header Line**

The fields occurring in the header line are:

```
<task> $<session> $<binary key> <origin> ** <phrase>
```

where:

**<task>** is the name of the active task that issued the task call to EMH.

**<session>** is the hexadecimal session number assigned when logging on the system.

**<binary key>** is the hexadecimal value in D0, which normally is an entry into the ERRORMSG.SY file (Appendix E). Refer to paragraph 2.1.1.1.

**<origin>** is one of the following entries, indicating where the error condition was originally encountered:

FROM SVC A server task (TRAP #1) error.

FROM IOS An Input/Output Services (IOS) (TRAP #2) error.

FROM FHS A File Handling Services (FHS) (TRAP #3) error.

FROM LDR A Loader (TRAP #4) error.

FROM USR A user task error.

<phrase> is usually an explanatory phrase describing the error condition.

If <phrase> has the form:

EMHzz \$xxxxxxxx

it signifies that EMH had difficulty in expanding the <binary key>.

The variable field zz is one of the entries in Appendix D. xxxxxxxx is a <binary key> generated by EMH.

Like the first <binary key> field, it should be one of the entries found in Appendix E. However, since much of the sentinel expansion in this table is dynamic, a full description of the error at this time may not be possible.

An example of the header line is:

DIR \$0049 \$00000100 FROM USR \*\* INVALID ENTRY

where:

DIR is the <task>

0049 is the <session>

00000100 is the <binary key>

FROM USR is the <origin>

INVALID ENTRY is the <phrase>

**2.1.1.1 The Binary Key.** The <binary key> is the value passed to EMH in D0. It is a key into the ERRORMSG.SY file (refer to Appendix E, and the EMFGEN command description in the M68000 Family VERSAdos Facilities Reference Manual).

A <binary key> of the form 08yynnzz is a TRAP #1 related message of VERSAdos Task Management. Appendix I lists all the Task Management messages, although some may be interpreted by EMH through the ERRORMSG.SY file (refer to Appendix E).

Tasks are assigned <binary key>s in the following ranges:

00000000-000002FF	Utilities
00000300-000004FF	Session management
00000500-000006FF	SYMbug
00001000-00002FFF	Pascal runtime
00008000-0000FFFF	User-generated
01000000-FFFFFFFF	VERSAdos operating system

2

### 2.1.2 Lines After The Header

Each line following the header may again be comprised of multiple fields. Each field contains an acronym/abbreviation and an equal sign (=), followed by a subfield of variable information. The acronyms/abbreviations and variable information are identified as:

A0=	<parameter block address>	
BUFF=	<buffer address>	
CMD=	<FHS/IOS command>	(Refer to the description of CODE and FUNCTION fields for FHS and IOS parameter blocks, in the VERSAdos Data Management Services and Program Loader User's Manual.)
DEVICE=	<device name>	
FILE=	<file descriptor>	
LU=	<logical unit number>	(Refer to Table 2-1.)
OPT=	<parameter block options>	(Refer to the description of OPTIONS field for FHS and IOS parameter blocks, in the VERSAdos Data Management Services and Program Loader User's Manual.)
PSN=	<physical sector number>	
RA=	<chain pseudo-register>	
RD=	<chain pseudo-register>	
RECL=	<record length>	

RRN= <random record number>  
RX= <chain pseudo-register>  
SESSION= <logon session number>  
SIZE= <field length>  
TASK= <taskname>  
TERMINAL= <terminal device name>  
USE DEFAULT VOLUME= <volume name>:<user number>. <catalog name>  
USER= <user number>  
USER NUMBER= <user number>  
USER TASK= <taskname>  
VOLN= <volume name>

## 2.2 EXAMPLES

The following command line and message sequence:

```
=LIST ABCD.LS
LIST $00C6 $I8000017 FROM FHS ** NONEXISTENT FILENAME
CMD= ASSIGN OPT=$0000 LU=1
FILE=FIX:14..ABCD.LS
```

=

means that during session C6 the FHS returned to the LIST task a binary key of 18000017, that is interpreted as "NONEXISTENT FILENAME." FHS attempted to ASSIGN the FIX:14..ABCD.LS file to logical unit 1 with the specified options.

The following command lines and message sequence:

```
=DUMP ERRORMSG.SY:I
DUMP VERSION 011882 3
> D 1234
DUMP $0015 $I00000C2 FROM IOS ** END OF FILE
CMD= READ OPT=$6048 LU=1
>
```

means that during session 15 the IOS attempted to read sector 1234 from the ERRORMSG.SY file that is assigned to logical unit 1. IOS returned to the DUMP task a binary key of 100000C2 that is interpreted as accessing a sector beyond "END OF FILE" for ERRORMSG.SY.

TABLE 2-1. Logical Unit Assignments

COMMAND	LUN	ASSIGNMENT
ACCT	1	Input device/owner file.
	2	Password file.
	6	Terminal output.
BACKUP	1	Input device/volume.
	2	Output device/volume or file on that volume.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
	7	File on input volume.
BUILDS	1	Input file: load module from which S-records are being built.
	2	Output file: file of S-records being built.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
CONFIG	1	Logon device.
	2	Configured device.
	3	Printer.
	5	Terminal input.
	6	Terminal output.
CONNECT	5	Terminal input.
	6	Terminal output.
CREF	1	Input file #1.
	2	Input file #2.
	3	Output file.
	5	Terminal input.
	6	Terminal output.
COPY	1	Input file.
	2	Output file.
	3	List file/device.
	4	Volume assignment (family copy only).
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
DEBUG	3	List device.
	4	Remote CRT (user task).
	5	Terminal input.
	6	Terminal output.
DEL	1	Input file.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.

TABLE 2-1. Logical Unit Assignments (cont'd)

COMMAND	LUN	ASSIGNMENT
DIR	1	Disk input file/device.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
DISPATCH	(none)	
DMT	1	Device being dismounted.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
DUMP	1	Input file.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch log output.
DUMPANAL	3	List file/device.
	5	Terminal input.
	6	Terminal output.
EMFGEN	5	Terminal input.
	6	Terminal output.
	7	ERRORMSG.SY file.
	8	ERRORMSG.SA file.
FREE	1	Volume.
	3	List file/device.
	6	Terminal output.
INIT	2	Output to disk being initialized.
	4	Input from boot file being copied to disk being initialized.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
LIB	1	Input file.
	2	Internal working file.
	3	List file/device.
	4	Internal working file.
	5	Terminal input.
	6	Terminal output.
LIST	1	Input file.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.

TABLE 2-1. Logical Unit Assignments (cont'd)

COMMAND	LUN	ASSIGNMENT
MBLM	1	Input file #1.
	2	Input file #2.
	3	Input file #3.
	4	Input file #4.
	5	Terminal input.
	6	Terminal output.
	7	Output file.
MERGEOS	5	Terminal input.
	6	Terminal output.
MIGR	1	Input file/device.
	2	Output file.
	5	Terminal input.
	6	Terminal output.
MT	1	Device being mounted.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
NOVALID	1	Password file.
PATCH	1	Input file.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
PRTDUMP	1	Dump file under analysis.
	3	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
RENAME	1	Input/output filename.
	3	List file/device.
	4	Volume assignment (family rename only).
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
REPAIR	1	Input volume/device.
	2	List file/device.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
SCRATCH	2	Disk assignment.
	3	List device (always the terminal).
	5	Terminal input.
	6	Terminal output.

TABLE 2-1. Logical Unit Assignments (cont'd)

COMMAND	LUN	ASSIGNMENT
SESSIONS	6	Terminal output.
SNAPSHOT	1	Terminal from which to print.
	2	Terminal/printer on which to print.
SPL	1	Queue file (SPLQUEUE.SQ). Always assigned while SPL is running.
	2	Temporary output file during assignment.
	3	Output file (used by the spawned task).
	3	Temporary output file during close and print operations.
	4	Output device (used by the spawned task).
	4	Output device during processing of retrieve attributes call.
	7	Output device (sent to SPL from SPOOL) for the queue.
SPOOL	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
SRCCOM	1	Input file #1.
	2	Input file #2.
	3	Output file.
	5	Terminal input.
	6	Terminal output.
SYSANAL	3	List device/file.
	5	Terminal input.
	6	Terminal output.
SYSGEN	1	Command file.
	2	Temporary output file.
	3	Boot file, substitution file, link file, or load module for task/process.
	4	List device/file.
	7	New substitution file.
TASKDUMP	3	Output file for task dump.
	5	Terminal or chainfile input.
	6	Terminal or batch listing output.
TDTIGEN1	2	Input file.
TRANSFER	1	Host port input/output.
	4	File input/output.
	5	Home port input/output.
	6	Terminal output.

TABLE 2-1. Logical Unit Assignments (cont'd)

COMMAND	LUN	ASSIGNMENT
TTGEN	2	Menu input file.
	3	Output file.
	4	.LO file.
	5	Terminal input.
	6	Terminal output.
UPLOADS	1	File input/output.
	5	Terminal output.
VALID	1	Password file.

2

THIS PAGE INTENTIONALLY LEFT BLANK.

**CHAPTER 3****ADDITIONAL MESSAGES****3.1 GENERAL**

Other messages that occur -- that is, other than those of the form described in Chapter 2 -- are listed and explained in this chapter. These same messages are also listed according to issuing task, in Appendix A. They are usually output directly by the active task, although they may be output by EMH through a trap call from the active task.

A variable field is shown in the following list of messages as a repetition of a lowercase letter. The meaning of each variable is found in the description to the right of a message. Normally, the letters a through w represent alphanumeric variables, and the letters x, y, and z represent numeric variables. The repetition of a letter shows the maximum size of that variable field (except where otherwise stated). For example, tttt represents a taskname whose maximum size is four characters. Some variable representations are:

cccccccc	catalog name
fffffff	file/command name
ssss	session number
tttt	taskname
uuuu	user number
vvvv	system default volume, or user default volume

Some of the messages use acronyms and abbreviations defined as:

ASQ	Asynchronous Service Queue
CDF	=5 -- the keyboard Logical Unit Number (LUN)
CRC	Cyclic Redundancy Check
DB	Data Block (block of sequential records), variable length
EMH	Error Message Handler program
EOF	End of File
EOR	End of Record
FAB	File Allocation Block (list of data blocks), variable length
FHS	File Handling Services
IO	Input/Output
IOS	Input/Output Services
LU	Logical Unit
MSG	Message
PC	Program (location) Counter
PDB	Primary Directory Block (list of filenames), 4 sectors in length
PSN	Physical Sector Number
RA	Pseudo-register in chain processing
RD	Pseudo-register in chain processing
RX	Pseudo-register in chain processing
SAT	Sector Allocation Table, variable length
SDB	Secondary Directory Block (list of catalogs), 1 sector in length
SLS	Lockout Sector
SLT	Sector Lockout Table
TCB	Task Control Block
TST	Diagnostic Test Table
USM	User Session Management
VID	Volume Identification Block, always sector 0, 1 sector in length

The following messages are listed in alphabetic order and, where appropriate, are followed by a brief explanation. Messages beginning with a non-alphabetic character are located at the beginning of the listing, and messages beginning with a variable are located last in the listing. All messages are shown in uppercase; however, as seen on a display screen or printer, many messages are in lowercase and uppercase.

The name in square brackets is the task that originated the message; for example, [USM] is the User Session Management, [E] is the CRT Editor, and [DIR] is the directory utility.

(+INFINITY) + (-INFINITY) IN AFFINE MODE	[PASCAL]
-----> BREAK!	[USM]
----->CAUTION: YOU WILL CHANGE PASSWORD FOR USER = 0 <-----	[USM]
)---> ttt ATTACHED	[SYMBUG]
0 * INFINITY	[PASCAL]
2 LOGICAL UNITS NOT AVAILABLE	[E] Editor exited.
*STATUS* CHECKSUM ERROR nnnn...	[UPLOADS] Possible loss of data. nnnn... are the first ten characters of S-record in error.
*STATUS* NO ERROR SINCE LAST STATUS	[UPLOADS] Status; ready to continue.
*STATUS* NO ERROR SINCE START OF PROGRAM	[UPLOADS] Status; ready to continue.
*STATUS* NON HEX DIGIT FOUND nnnn...	[UPLOADS] Possible loss of data. nnnn... are the first ten characters of S-record in error.
*STATUS* RECORD LENGTH ERROR nnnn...	[UPLOADS] Possible loss of data. nnnn... are the first ten characters of S-record in error.
**BUFFER ERROR**	[MBLM] No free memory available.
**COMMAND LINE ERROR**	[MBLM]
**DUPLICATE PARAMETER	[SYSGEN] A parameter can be defined only once.
**ERROR** FILE DOES NOT START WITH "SO"	[UPLOADS] File error. Program stopped.
**ERROR**DUPLICATE FILENAME** REUSE FILE (Y/N?)	[MBLM] Output file already exists. Enter Y or N.
**ERROR xxx - mmmm	[LINK] xxx is an entry in Appendix G; mmmm is a descriptor of the error.
**FILE HANDLING ERROR** LUN = n, STATUS = \$zz	[MBLM] n is the LUN, and zz is an entry in Appendix C, Table C-1.
**FILENAME MISSING	[SYSGEN] Filename not specified on PROCESS, TASK, SUBS, LINK, or ASM command.

**FILENAME TOO LONG	[SYSGEN] Filename specified in the SUBS command line was more than seven characters.
**INPUT/OUTPUT ERROR** LUN = n, STATUS = \$zz	[MBLM] n is the LUN, and zz is an entry in Appendix C, Table C-2.
**INVALID FILE DESCRIPTOR	[SYSGEN] Filename not in proper format on PROCESS, TASK, SUBS, LINK, or ASM command.
**INVALID FILE TYPE	[SYSGEN] The file specified in a SUBS command was contiguous, or an existing substitution file (X file) had a file type different from the original.
**INVALID LINK STATEMENT	[SYSGEN] First record of <link file> did not contain "LINK" or "=LINK" as first part of record.
**INVALID PARAMETER	[SYSGEN] Parameter name is not two to eight alphanumeric characters (including ".", "\$", and "&").
**INVALID SEGMENT NAME	[SYSGEN] Segment name on EXCLUDE or SEGMENT command line was not two to four alphanumeric characters (including "&", ".", or "\$").
**INVALID STATE OR ATTRIBUTE	[SYSGEN]
**INVALID TASKNAME	[SYSGEN] Taskname on the TASK command line was not two to four alphanumeric characters (including "\$", ".", and "&").
**INVALID VALUE	[SYSGEN] Parameter not in valid form (hex, decimal, or string).
**NEW PC LESS THAN OLD	[SYSGEN] The SYSGEN location counter cannot be changed to a value less than its current value.
**NEW PC MUST BE ON PAGE BOUNDARY	[SYSGEN] The <number> specified on the PC command line was not a 256-byte boundary.
**NO SEGMENTS PROCESSED	[SYSGEN] No segment found on execution of a TASK or PROCESS command line. (Can result from excluding all segments of a task or process.)

**NOTE** EMPTY FILE, NO PREVIOUS RECORDS	[UPLOADS] Status; ready to continue.
**NOTE** NO S9 RECORD ON EXISTING FILE	[UPLOADS] Status; ready to continue.
**OUTPUT DISK FULL** CONTINUE (Y/N)?	[BACKUP] During a file-by-file backup, the output disk was filled. The partially copied file was deleted from the output disk and the user is given the opportunity to continue the backup onto another disk.
**PC=\$xxxxxxxx	[SYSGEN] xxxxxxxx is the new value of location counter after execution of a PC command line.
**S-RECORD ERROR**	[MBLM] Error in input record content.
**SUBSTITUTION RECORD TOO BIG	[SYSGEN] Values substituted for parameters resulted in a record larger than 256 bytes.
**SYNTAX ERROR	[SYSGEN]
**TOO MANY EXCLUDED SEGMENTS	[SYSGEN] A maximum of four EXCLUDE commands per task or process is allowed. Excess EXCLUDE commands are ignored.
**VALUE TOO BIG	[SYSGEN] Value for USER or PRIORITY parameter too large.
**WARNING xxx - mmmm	[LINK] xxx is an entry in Appendix H; mmmm is a descriptor of the warning.
**ffff SEGMENT NOT FOUND	[SYSGEN] Filename ffff, specified on EXCLUDE or SEGMENT command line, was not found in corresponding task, process, or load module.
**nnnnnnnn NOT DEFINED	[SYSGEN] nnnnnnnn is a parameter encountered in a substitution file that was not previously defined. SYSGEN substitutes the value of zero.
*** ERROR *** CHOICE NOT MODIFIABLE	[CONFIG]
*** ERROR *** DEVICE NAME MUST BE PRECEDED BY THE POUND SIGN, "#"	[CONFIG]

*** ERROR ***	INVALID DEVICE NAME	[CONFIG]
*** ERROR ***	INVALID SELECTION	[CONFIG]
*** ERROR ***	ONLY USER 0 CAN PERFORM A CONFIGURE DEFAULTS	[CONFIG]
*** ERROR ***	ONLY USER 0 CAN RECONFIGURE #xxxx	[CONFIG]
*** ERROR ***	#xxxx CANNOT BE RECONFIGURED UNTIL THE SPOOLER IS DEACTIVATED	[CONFIG]
*** ERROR ***	#xxxx DOES NOT EXIST	[CONFIG]
*** ERROR ***	xxxxxx : VALUE OUT OF RANGE	[CONFIG]
*** ERROR ***	xxxxxx IS AN INVALID BAUD RATE	[CONFIG]
*** NOTE ***	PRINT COMMAND EXECUTED	[CONFIG]
*** NOTE ***	#xxxx HAS BEEN CONFIGURED	[CONFIG]
*** NOTE ***	xxxxx IS READY FOR CONFIGURATION	[CONFIG]
*** SORRY ***	DEVICE TYPE IS NOT DEFINED	[CONFIG]
*** SORRY ***	#xxxx CANNOT BE CONFIGURED	[CONFIG]
*** SORRY ***	#xxxx CANNOT BE RECONFIGURED UNTIL MORE MEMORY IS FREED	[CONFIG]
*** SORRY ***	#xxxx IS BUSY	[CONFIG]
*** SORRY ***	#xxxx IS BUSY AND CANNOT BE RECONFIGURED AT THIS TIME	[CONFIG]
*** SORRY ***	#xxxx NOT READY OR POSSIBLY NOT THERE	[CONFIG]
*****	NO FILE NAME DEFINED FOR ENTRY	[TTGEN]

A DISK IS ALREADY MOUNTED ON THE DEVICE	[MT]
ADDITIONAL PARAMETER(S) NEEDED	[SYMBUG]
ADDRESS ENTERED IS INVALID	[SYMBUG]
ADDRESS ERROR - BAD POINTER OR STACK/HEAP OVERFLOW	[PASCAL]
ADDRESS MUST BE EVEN	[SYMBUG]
ADDRESS RANGE ENTERED IS INVALID	[SYMBUG]
ADDRESS xxxxxxx	[PRTDUMP] The address xxxxxxx is not in the logical address range of any of the task's segments.
ALLOCATED FILE RESTOREA.CF BUT UNABLE TO ASSIGN IT	[TDTIGEN1]
AN ARGUMENT WAS A TRAPPING NOT-A-NUMBER	[PASCAL]
ASQ ERROR D0=xx0000zz	[E] Terminates Editor - unable to allocate an ASQ. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry Table C-2.
ASSEMBLY LANGUAGE SYNTAX ERROR	[PATCH]
ATTACH NOT ALLOWED	[DEBUG] Task is not a loaded DORMANT user task. If after AP, the printer is already attached.
ATTEMPT TO ENABLE 6809 FLOATING POINT TRAP	[PASCAL]
ATTEMPT TO SET 6809 FLOATING POINT EXCEPTION	[PASCAL]
ATTEMPT TO SET 6809 FLOATING POINT PRECISION MODE	[PASCAL]
ATTEMPT TO TAKE NAN(0)	[PASCAL]
ATTRIBUTES NOT THE SAME FOR OVERWRITE	[COPY] Files must have same file type.
BAD CHARACTER COUNT RECEIVED EXPECTED - RETRANSMITTING	[TRANSFER]
BAD CHECKSUM RECEIVED EXPECTED - RETRANSMITTING	[TRANSFER]
BAD FILE NAME ENTERED - REENTER NAME OR 'Q' TO QUIT	[TRANSFER]

BAD MODULE NAME	[LIB] Improper module name.
BAD PARM BLOCK	[DEBUG] TRAP #1 related error. System problem, except for MD which uses console-supplied arguments for call. Verify that supplied values are in the program address range.
3 BAD STATUS CMD. FROM IPC = \$xxxx	[IPL]
BAD STATUS FROM EXTERNAL DISKIO ROUTINE = \$xxxx	[IPL]
BAD STATUS FROM IPC = \$xxxx	[IPL]
BAD TARGET TASK	[DEBUG] Refer to "BAD PARM BLOCK".
BATCH JOB ssss CANCELLED	[USM]
BATCH SESSION NOT FOUND	[USM]
BINARY-TO-DECIMAL OR DECIMAL-TO-BINARY CONVERSION OUT OF RANGE	[PASCAL]
BOF OR EOF ENCOUNTERED	[E] Beginning-of-file or end-of-file encountered. Continue.
BOOLEAN EXPECTED IN TEXT FILE	[PASCAL]
BOOT COMPLETE	[IPL]
BOOT FILE ERROR	[SYSGEN] Invalid boot filename; device name entered; or additional output files specified.
BOOT IN PROGRESS	[IPL]
BOTH PROTECTION CODES ARE REQUIRED	[RENAME] Reenter the command, specifying protection codes for both input and output field filenames.
BREAK KEY! -	[REPAIR]
BREAK WAS INPUT	[E] BREAK key was pressed during page or command execution - Editor goes to command mode.
BREAKPOINT TABLE FULL	[DEBUG] Delete one of existing ten breakpoints.
BREAKPOINTS LOCKED IN EXECUTION	[DEBUG] Use STOP command to halt execution.

BUFFER ADDRESS WRONG

[DEBUG] TRAP #1 related error. System problem, except for MD which uses console-supplied arguments for call. Verify that supplied values are in the program address range.

BUFFER OVERFLOW ERROR

[MIGR] An internal error in the program caused by a record too large to handle.

BUS ERROR - BAD POINTER OR  
STACK/HEAP OVERFLOW

[PASCAL]

BUS ERROR ACCESSING RAM -  
INITIALIZE RAM AND TRY AGAIN

[IPL]

CAN'T ASSIGN "fffffff"

[TTGEN]

CAN'T LIST A CONTIGUOUS FILE

[LIST]

CAN'T LIST A DEVICE

[LIST] A device name is illegal in the input field of the command line.

CAN'T READ FILE "fffffff"  
STATUS = \$xxxxxxxx

[TTGEN]

CANNOT ATTACH A SYSTEM TASK

[SYMBUG]

CANNOT ENTER LOCKOUT ENTRIES ON A  
FOREIGN DISK

[INIT] The user is trying to enter entries into the SLT on a non-EXORmacs disk.

CANNOT HANDLE BREAKS

[DEBUG] System problem -- BREAK key will abort program.

CANNOT HANDLE BREAKS DO=xx0000zz

[E] Editor cannot handle BREAK key during this edit session - continues with Edit. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.

CANNOT LOCKOUT SECTORS IN TRACK ZERO,  
ENTRY NOT ALLOWED

[INIT] This check has been installed to prevent the corruption of the SAT during INIT operation. If it is imperative to lockout this block, the S option will permit this. However, performance will be affected.

CANNOT USE S OPTION ON A FLOPPY	[INIT] The user is attempting to enter lockout entries on a floppy diskette that does not have an SLT.
CASE INDEX OUT OF RANGE	[PASCAL]
CDF NOT ASSIGNED	[REPAIR]
CHARACTERS ENTERED EXCEEDED BUFFER SIZE	[SYMBUG]
CLOSE ERROR D0=xx0000zz	[E] File not closed; Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.
COMMAND ABORTED BY BREAK KEY	[E] BREAK key was pressed during PRINT or FIND command. Refer to command descriptions for action.
COMMAND ENTERED IS NOT [YET] SUPPORTED	[SYMBUG]
COMMAND ERROR	[MIGR]
COMMAND LINE ERROR	[E, MERGEOS, REPAIR, TRANSFER]
COMMAND NOT VALID YET	[SYMBUG]
CONFIGURATION ERROR -- xxxxxxxx	[INIT] The user has attempted to configure a disk/diskette that resulted in an error.
CONFIGURATION ERROR CODE \$xx	[MT] The hex error code meaning is described in the VERSAdos Data Management Services and Program Loader User's Manual.
CONVERSION OF A NOT-A-NUMBER TO AN INTEGER	[PASCAL]
CRC ERROR ON READ xxxx, PSN = xxxxxxxx, dddd, xxxx	[REPAIR]
DATA OVERRUN I/O ERROR	[E] Screen I/O error - Editor rewrites current page to screen and goes to command mode.
DELETE ERROR D0=xx0000zz	[E] Save files; Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.
DETACH NOT ALLOWED	[DEBUG] Printer is already detached.

DEVICE NAME ERROR	[MIGR]
DIVISION BY ZERO	[PASCAL]
DMPA: BREAK RVCD!!	[DUMPANAL]
DMPA: DISK READ ERROR - D0 = xxxxxxxx	[DUMPANAL]
DMPA: ERROR WRITING TO OUTPUT DEVICE - D0 = xxxxxxxx	[DUMPANAL]
DMPA: MEMORY NOT AVAILABLE FOR BUFFERS	[DUMPANAL]
DMPA: OUTPUT DEVICE ASSIGNMENT ERROR - D0 = xxxxxxxx	[DUMPANAL]
DMPA: REENTER OUTPUT DEVICE NAME >	[DUMPANAL]
DMPA: TASK NOT FOUND	[DUMPANAL]
DUPLICATE FILE - OK TO COPY (Y/N/Q) ?	[BACKUP]
DUPLICATE FILENAME - REUSE (Y/N)?	[MIGR] Enter Y to overwrite file.
END OF MEMORY IMAGE REACHED	[PATCH]
END OF SECTOR REACHED	[DUMP] A change or display was attempted with the M subcommand, which specifies a byte offset greater than \$FF.
EOF ERROR	[MIGR] An early EOF on input.
ER: "IF" LEVEL EXCEEDED	[USM]
ER: "fffffff" COMMAND NOT FOUND	[USM]
ER: "vvvv" VOLUME NOT FOUND	[USM]
ER: =/ENDIF'S EXCEED =/IF'S	[USM]
ER: ACCESS PERMISSION	[USM]
ER: BAD FAB BACKWARD LINK, PSN = xxxxxxxx	[REPAIR]
ER: BAD FAB CONTENTS	[REPAIR]
ER: BAD FAB FORWARD LINK, PSN = xxxxxxxx	[REPAIR]
ER: BAD TEST PATTERN	[REPAIR]
ER: BATCH NOT ALLOWED IN BATCH MODE	[USM]
ER: BATCH QUEUE FULL	[USM]

3

ER: BATCH SESSION NUMBER	[USM]
ER: CANNOT BE CONTINUED, MUST BE STARTED	[USM]
ER: CATALOG NAME	[REPAIR]
ER: CHAIN COMMAND SYNTAX	[USM]
ER: CHECKSUM	[REPAIR]
ER: COMMAND SYNTAX	[USM]
ER: DB KEY ORDER, PSN = xxxxxxxx	[REPAIR]
ER: DB PSN ERROR, PSN = xxxxxxxx, LENGTH = xxxxxxxx	[REPAIR]
ER: DB SIZE = xx	[REPAIR]
ER: DEFAULT VOLUME NOT CHANGED	[USM]
ER: DEVICE NOT ALLOWED	[USM]
ER: DISK NOT A VERSADOS VOLUME	[REPAIR]
ER: DUMP AREA PSN ERROR	[REPAIR]
ER: EMPTY FAB, PSN = xxxxxxxx	[REPAIR]
ER: EMPTY FILE - LAST FAB PSN NOT 0	[REPAIR]
ER: EOF/EOR AND FAB/DB CONFLICT	[REPAIR]
ER: EXTENSION	[REPAIR]
ER: FAB SIZE = xx	[REPAIR]
ER: FAB USAGE FRACTION	[REPAIR]
ER: FAB/DB KEY CONFLICT (L, F, or H)	[REPAIR]
ER: FAB/DB RECORD CONFLICT, PSN = xxxxxxxx	[REPAIR]
ER: FAB/DB SECTOR CONFLICT, PSN = xxxxxxxx	[REPAIR]
ER: FDB SIZE = xx	[REPAIR]
ER: FIELD SIZE EXCEEDED	[USM]
ER: FILE ATTRIBUTE	[REPAIR]
ER: FILENAME	[REPAIR]
ER: FILE NOT FOUND	[REPAIR]

ER: FILE WAS NOT ASSIGNED [USM]  
ER: FILE/DEVICE MISSING [USM]  
ER: INVALID FILE DESCRIPTOR [USM]  
ER: INVALID LU NUMBER [USM]  
ER: INVALID TASKNAME [USM]  
ER: INVALID USER NO. [USM]  
ER: KEY SIZE = xx (I, D, S, H, or E) [REPAIR]  
ER: LAST DB SIZE [REPAIR]  
ER: LOGON TERMINAL NOT AVAILABLE IN BATCH MODE [USM]  
ER: LUN nn NOT ASSIGNED [USM]  
ER: MUST BE IN CHAIN MODE [USM]  
ER: MUST BE STARTED INDIVIDUALLY BY TASK NAME [USM]  
ER: NESTING LEVEL EXCEEDS NO. LUNS PER TASK [USM]  
ER: NO CHANGE TO VOLUME, USER NUMBER, OR CATALOG [USM]  
ER: NO FAB LINKS [REPAIR]  
ER: NO ROOM IN RETURN STACK SPACE (TOO MANY ARGUMENTS) [USM]  
ER: NO. ARGUMENTS EXCEEDS STACK SPACE [USM]  
ER: NOT ALLOWED IN BATCH MODE [USM]  
ER: NOT ALLOWED ON LINE, SUBMIT IN BATCH MODE [USM]  
ER: NOT USER = 0 [USM]  
ER: NUMERICAL CONVERSION ERROR [USM]  
ER: OPTION LETTERS ARE A-O ONLY [USM]  
ER: RECORD LENGTH = xxxx [REPAIR]  
ER: RECORD NOT FOUND [USM]

3

ER: SAT LENGTH = xxxxxxxx	[REPAIR]
ER: SAT PSN = xxxxxxxx	[REPAIR]
ER: SDB PSN = xxxxxxxx	[REPAIR]
ER: SLS PSN BAD	[REPAIR]
ER: SLT PSN ERROR	[REPAIR]
ER: TASK NOT FOUND	[USM]
ER: TST PSN ERROR	[REPAIR]
ER: UNUSED SECTORS MARKED ALLOCATED IN SAT	[REPAIR]
ER: USER, CATALOG NAME CONFLICT, PSN = xxxxxxxx	[REPAIR]
ER: USER NO. NOT FOUND	[USM]
ER: USER NUMBER NOT FOUND	[USM]
ER: VALUE SIZE TOO BIG	[USM]
ER: VALUES REVERSED	[USM]
ER: VOLUME DESCRIPTOR	[REPAIR]
ER: VOLUME NAME	[REPAIR]
ER: YOU FAILED IN YOUR ATTEMPT TO CRASH THE SYSTEM	[USM]
ER: dddd LINK, PSN = xxxxxxxx	[REPAIR]
ER: dddd NOT ALLOCATED IN SAT, PSN = xxxxxxxx	[REPAIR]
ER: dddd REALLOCATED AFTER FILE DELETED, PSN = xxxxxxxx	[REPAIR]
ER: dddd RESERVED FIELD NOT ZERO, PSN = xxxxxxxx	[REPAIR]
ER: dddd SPACE ALREADY ALLOCATED, PSN = xxxxxxxx	[REPAIR]
ERROR (READ OR WRITE) PROTECTION CODE	[RENAME] File protection code is either missing or entered incorrectly.
ERROR FROM WRITE, STARTING PSN = xxxxxxxx	[REPAIR]

ERROR IN COMMAND LINE... nnnn...	[UPLOADS] Output parameter error. nnnn... are the first 30 characters of command line.
ERROR IN FILE SPECIFICATION	[IPL] The format of the filename was incorrect.
ERROR IN OPTION FIELD	[IPL] A non-ASCII character was found in the option field.
ERROR IN READ OF "&.RESTOREA.CF" FILE	[TDTIGEN1]
ERROR IN WRITE OF "&.RESTOREA.CF" FILE	[TDTIGEN1]
ERROR SECTOR ALLOC TABLE EXCEEDED	[INIT] Internal error.
ERROR TRAP x ERROR CODE: yyzz	[DEBUG] x is a TRAP number; zz is an entry in Appendix C.
ERROR WRITING TO OUTPUT FILE, STATUS = xxxxxxxx	[TTGEN]
ERROR-CHANGE ACCESS DO=xx0000zz	[E] Internal error - attempt failed to change access to public read/write for logical unit 5; Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.
ERROR-CHECK FOR *TEMPLIB.RO*	[LIB] The error occurred before creation of the new library. The file TEMPLIB.RO contains the library. Rename to library name.
ERROR-END OF FILE NOT REACHED	[COPY] Possible system error or bad file. Delete output file, then copy again.
ERROR-INPUT AND OUTPUT NAMES ARE THE SAME	[COPY, DUMP, LIST] Change output filename and reenter.
ERROR-INPUT DISK FOREIGN AND OUTPUT DISK LARGER	[BACKUP] If the input disk is foreign (either it is not in VERSAdos format or another volume of the same name was mounted before it) and the output disk is larger than the input disk, a track-by-track backup cannot be done.
ERROR-INPUT FILE IS NOT A LOAD MODULE	[BUILD\$] Input file is not a valid load module in VERSAdos format.
ERROR-INPUT FILE MUST HAVE EXTENSION .LO OR .SY	[BUILD\$]

3  
ERROR-IOS CALL D0=xx0000zz

[E] Screen I/O error; files saved and Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.

ERROR-MERGE NOT EXECUTED

[E] System error.

ERROR-MUST USE A OPTION

[BACKUP] A backup between hard disks requires the A option (and its modifiers).

ERROR-NO INPUT FILE WAS SPECIFIED

[BUILDS]

ERROR-OPTION A OR R BACKUP WITH FOREIGN DISK

[BACKUP] Neither disk may be foreign with an option A backup, and the input disk may not be foreign with an option R backup.

ERROR-OUTPUT DISK TOO SMALL

[BACKUP] A track-by-track backup, or verify, from a larger disk to a smaller disk is not permitted.

ERROR-READ &gt; PROTECTION CODE

[RENAME] The wrong protection code was used (or none when one is required).

ERROR-RETRIEVE ATTRIBUTES D0=xx0000zz

[E] Internal error - attempt failed on FHS RETRIEVE attributes for console call; Editor exited. If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2.

ERROR-USE INIT COMMAND,  
THEN BACKUP WITH A OPTION

[BACKUP] An R option back-up to a hard disk is illegal.

ERROR-USE & CATALOG NOT ALLOWED  
WITH TRACK-BY-TRACK COPY OR VERIFY

[BACKUP]

ERROR-WRITE &gt; PROTECTION CODE

[RENAME] The wrong protection code was used (or none when one is required).

ERROR: INVALID PRODUCT CATALOG VALUE

[TDTIGEN1]

ERROR: INVALID SYSTEM TYPE

[TDTIGEN1]

ERROR: INVALID USER NUMBER VALUE

[TDTIGEN1]

ERROR: INVALID VOLUME NAME

[TDTIGEN1]

ERROR: PRODUCT CATALOG EXCEEDS EIGHT  
CHARACTERS

[TDTIGEN1]

ERROR: SYSTEM TYPE EXCEEDS ONE CHARACTER [TDTIGEN1]  
ERROR: USER NUMBER EXCEEDS FOUR CHARACTERS [TDTIGEN1]  
ERROR: VOLUME NAME EXCEEDS FOUR CHARACTERS [TDTIGEN1]  
EVEN ADDRESS IS REQUIRED [SYMBUG]  
EVENT NOT SENT [DEBUG] System problem -- bad taskname if TASK command.  
EXPRESSION ENTERED IS INVALID [SYMBUG]  
FAILED TO ASSIGN LUN TO TASK [SYMBUG]  
FAILED TO CHANGE TASK STATUS [SYMBUG]  
FHS/IOS ERROR zz AT xxxx [UPLOADS] zz is an entry in Appendix C. xxxx is the address of call to FHS or IOS (internal use).  
FILE #1 NAME MISSING! [SRCCOM]  
FILE #1 ('fffffff') DOES NOT EXIST! [SRCCOM]  
FILE #2 NAME MISSING! [SRCCOM]  
FILE #2 ('fffffff') DOES NOT EXIST! [SRCCOM]  
FILE ALREADY EXISTS [LIB] Attempt to copy a module into an existing file.  
FILE DOESN'T EXIST [E]  
FILE EXISTS - OK TO OVERWRITE (Y/N)? [COPY, TRANSFER] Output file already exists. Enter Y if it is acceptable to overwrite it.  
FILE EXISTS... S-RECORDS WILL BE APPENDED [UPLOADS] Status; ready to continue.  
FILE FORMAT NOT ASCII [MIGR]  
FILENAME IS AN INVALID FILE TYPE [LIB] Attempted to add a file type other than .R0 to the library.  
FILE NOT FOUND [IPL]  
FILE NOT ON VOLUME nnnn [DIR] nnnn is the volume name. Probably incorrect filename or volume ID.  
FILE NOT OPEN AT INPUT [PASCAL]

FILE NOT OPEN AT OUTPUT	[PASCAL]
FILENAME NOT FOUND	[MIGR]
FILENAME2 EXISTS, OVERWRITE (Y/N)?	[E] Enter Y to continue edit with <filename2> as output file; enter N to terminate edit session.
FREE LOGICAL UNIT X	[REPAIR]
GIVE NEW NAME	[REPAIR]
I/O ERROR FOR SCREEN	[SYMBUG]
I/O ERROR WHILE PROCESSING HELP FILE	[SYMBUG]
I/O ERROR WHILE PROCESSING PROFILE FILE	[SYMBUG]
I/O ERROR WHILE SAVING EMULATOR CONFIGURATION	[SYMBUG]
I/O FRAMING ERROR	[E] Screen I/O error; Editor rewrites current page to screen and goes to command mode.
ILLEGAL DIVISION	[PASCAL]
ILLEGAL FILENAME	[PASCAL]
ILLEGAL FMS COMMAND CODE X	[E] Internal Editor error; files saved and Editor exited.
ILLEGAL INPUT FILENAME D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Editor exited.
ILLEGAL OUTPUT FILENAME D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Editor exited.
ILLEGAL REM ARGUMENTS	[PASCAL]
ILLEGAL SQRT ARGUMENT	[PASCAL]
ILLEGAL TRAP #14 ERROR CODE - INTERNAL PASCAL ERROR	[PASCAL]
INCOMPATABLE FILE TYPES - NO MERGE	[E] File to be merged must be of edit file type.
INCORRECTLY FORMATTED RETURN PACKET FROM IPC	[IPL]
INEXACT RESULT	[PASCAL]

INPUT DISK IS FOREIGN  
CONTINUE (Y/N)?

[BACKUP] During a track-by-track backup, it was found that the input disk is foreign. This message is printed to inform the user of the possibility that the disk is not a VERSAdos disk. Type Y to continue, N to abort.

INPUT FILE ERROR

[SYSGEN, MERGEOS] Invalid filename or more than one input file specified.

INPUT FILE MUST BE A LOAD MODULE

[PATCH] Must be contiguous file with a .LO extension.

INPUT FILE MUST BE CONTIGUOUS

[MERGEOS]

INPUT FILE REQUIRED

[SYSGEN] A command file must be specified and cannot be a device.

INPUT FILENAME ERROR

[MIGR]

INSERT AFTER MODULE mmmm NAME NOT FOUND

[LIB] ADD command was unable to find module mmmm.

INSERT ERROR D0=xx0000zz

[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Save files; exit Editor.

INSTRUCTION ADDRESSES MUST BE EVEN

[PATCH] An odd address was specified in the memory modify subcommand.

INSUFFICIENT DIRECTORY SPACE

[E] Editor exited.

INSUFFICIENT DISK SPACE

[E] (1) On Open: Editor exited,  
(2) On Close or Save: output file may not be saved; input file may not be closed; Editor exited, (3) otherwise, files saved and Editor exited.

INTEGER DIVISION BY ZERO

[PASCAL]

INTEGER EXPECTED IN TEXT FILE

[PASCAL]

INTERNAL ERROR x

[REPAIR]

INTERNAL LIST ERROR

[E] Editor cannot process command; reenter command.

INVALID ADDRESS	[PATCH] Address after M subcommand lies outside memory space assigned to this task.
INVALID BASE FOR INTEGER IN TEXT FILE	[PASCAL]
INVALID CHARACTER RECEIVED - REINPUT	[E] During CRT mode editing, the Editor found a character it could not handle. The screen is rewritten and command level is entered.
3 INVALID COMMAND LINE	[IPL, TTGEN] The format of the command line was incorrect.
INVALID COMMAND-NO FILE RECORDS	[E] No records are in the file for which a CHANGE, FIND, MERGE, etc., is requested. These commands require at least one record.
INVALID DEVICE	[DUMP, REPAIR] Device name specified on the input command line does not exist.
INVALID DIGIT FOR BASED INTEGER IN TEXT FILE	[PASCAL]
INVALID EMULATOR ID NUMBER	[SYMBUG]
INVALID ENTRY	[LIB]
INVALID FILE NAME SPECIFIED ON COMMAND LINE	[TTGEN]
INVALID FILE TYPE	[IPL] The file must be a contiguous type.
INVALID KEYSIZE - OUTPUT FILE	[E] Open error - keysizes of input and output files do not match; editor exited.
INVALID MACRO PARAMETER	[SYMBUG]
INVALID MODULE NAME	[LIB] Improper module name or name missing.
INVALID OPERATION	[PASCAL]
INVALID OPTION FIELD!	[SRCCOM]
INVALID OPTION WITH NEW FILENAME	[E] Editor exited.
INVALID OPTIONS	[E] Editor exited.

INVALID RESPONSE --- PRESS RETURN TO CONTINUE	[TTGEN]
INVALID SEGMENT INFORMATION	[MERGEOS]
INVALID SUBCOMMAND FOR NONCONTIGUOUS FILE	[DUMP] An attempt was made to alter the contents of a non-contiguous file using the W subcommand.
INVALID TAB OPTIONS - USING DEFAULTS	[E] Editor session continues.
INVALID VERSADOS FILENAME SPECIFIED	[SYMBUG]
IO ERROR, DO = xxxxxxxx FROM (READ or WRITE) dddd	[REPAIR]
IPC SHARED MEMORY NOT FREE	[IPL]
IPC SHARED MEMORY READ/WRITE MISMATCH	[IPL]
LAST FAB PSN = xxxxxxxx	[REPAIR]
LIBRARY DOES NOT EXIST	[LIB] Attempted operation on null library.
LINK: ABORTED BY LINK = xyzz	[LINK] If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.
LIST DEVICE/FILE ERROR	[SYSGEN] Invalid list device or file specified, or more than one name specified.
LOAD ERROR	[DEBUG] Unknown filename as LOAD argument.
LOCK TABLE ALREADY ALLOCATED, ENTRY NOT ALLOWED	[INIT] The user has attempted to lock out the same block or one that overlaps another already locked out. Alternatively, the user has tried to lock out a block that is already in use by a file.
LOGON REJECTED, LOGGED OFF	[USM]
LUN NOT AVAILABLE - NOT EXECUTED	[E] SAVE or MERGE error; no LUN for file.
MACRO EXPANSION ERROR	[SYMBUG]
MACRO PARAMETER ERROR	[SYMBUG]
MACRO PARAMETER IS MISSING	[SYMBUG]

MACRO/SYMBOL NAME IS NOT DEFINED	[SYMBUG]
MACRO/SYMBOL TABLE IS FULL	[SYMBUG]
MAXIMUM # OF TAB SET (20)	[E] 20 tab stops have already been set. No more tabs may be set until some are deleted.
MEDIA NOT DEFINED--BAD TOTAL NUMBER OF SECTORS RETURNED FROM THE IPC	[INIT] The floppy diskette was improperly defined at SYSGEN time.
MEMORY ALLOCATION ERROR DURING PROCESSING Z OPTION	[PASCAL]
MEMORY SEGMENT ALLOCATION ERROR!!!	[INIT] A request for memory from the system failed.
MERGE NOT PERFORMED	[MERGEOS]
MODULE NAME ALREADY IN LIBRARY	[LIB]
MOUNT IS NOT NEEDED FOR IPC DISKS	[MT]
MOVED SINGLE PRECISION UNNORMALIZED TO DOUBLE PRECISION	[PASCAL]
MSG FROM ASQ WRONG	[DEBUG] System problem -- BREAK key will abort program.
MUST BE USER 0	[SPL] Only the system administrator is allowed to initiate spooling.
NAK RECEIVED FROM IPC	[IPL]
NEW FILENAME1-FILENAME2 IGNORED - CONTINUE (Y/N)?	[E] <filename1> is a new file; therefore, <filename2> is not required.
NO ASQ	[DEBUG] System problem -- BREAK key will abort program.
NO CONFIGURATION DATA IS AVAILABLE FOR THIS DISK	[MT] Foreign disk.
NO DATA MOVED TO XTRACT BUFFER	[E] Try MOVE or DUP using fewer records at a time.
NO DIRECTORIES	[REPAIR]
NO INVALID OPERATION ERROR	[PASCAL]
NO MEMORY FOR ASQ	[DEBUG] Retry when fewer users on system. Fatal error.

NO MEMORY FOR TCB	[DEBUG] Retry when fewer users on system. Fatal error.
NO MODULE ID RECORDS	[LIB] No header record found or null library.
NO OUTPUT FILE CREATED	[SYSGEN] No process or task specified before detection of the end of the command file.
NO RECORDS INSERTED - BUFFER FULL	[E] During an AMOV or ADUP, the XTRACT buffer will not hold any more records. Move the buffer records to the file by an XTRACT command, then clear the buffer by an XTRACT A command.
NO ROOM TO ATTACH tttt	[DEBUG] Retry when fewer users on system. Fatal error.
NUMBER ENTERED IS OUT OF RANGE	[SYMBUG]
NUMBER/VALUE ENTERED IS INVALID	[SYMBUG]
OFFSET ERROR	[REPAIR]
OK TO MERGE (Y/N/Q) ?	[MERGEOS]
OLD LIB FORMAT - INPUT FILE MUST BE LINKED WITH LINK 1.90 OR LATER	[PATCH]
ONLY THE OWNER OF THE DISK OR USER 0 MAY MOUNT	[MT]
ONLY USER 0 CAN USE D (MOUNT DRIVE) OPTION [MT]	
OPEN ERROR DO=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2, Editor exited.
OPTION ENTERED IS INVALID	[SYMBUG]
OPTION ERROR IN 'RESET' OR 'REWRITE'	[PASCAL]
OPTION FIELD ERROR	[TRANSFER]
OPTION(S) SET = o....	[USM]
OUTPUT FILE ERROR	[MERGEOS]
OUTPUT FILE EXISTS - OK TO OVERWRITE (Y/N)?	[DUMP] Enter Y or N.

OUTPUT FILE EXISTS - SAVE NOT DONE	[E] SAVE command requires new output file.
OUTPUT FILE MUST BE CONTIGUOUS	[MERGEOS]
OUTPUT FILENAME ERROR	[MIGR]
OVERFLOW	[PASCAL]
OVERFLOW ON CONVERSION FROM FLOATING POINT TO INTEGER	[PASCAL]
PARSER ERROR NUMBER ...xxxx	[SYMBUG]
PAS1: ABORTED BY PAS1 = xyzz	[PASCAL] If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.
PAS2: ABORTED BY PAS2 = xyzz	[PASCAL2] If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.
PRINTER BUSY	[E] Reenter command.
PRINTER ERROR, DO = xxxxxxxx	[REPAIR]
PRINTER NOT READY	[E] Check printer readiness; reenter command.
PRINTER UNAVAILABLE, HARDCOPY OUTPUT SKIPPED	[INIT]
PRIOR FAB PSN = xxxxxxxx	[REPAIR]
PROJECTIVE CLOSURE USE OF +/- INFINITY	[PASCAL]
PSN ERROR	[REPAIR]
Q TO QUIT: <CR> CONTINUES.	[SYMBUG]
QUIT (Y/N)?	[REPAIR]
QUOTE STRING ERROR	[PATCH] Invalid syntax in entry.
R: ALLOCATE xxxx	[REPAIR]
R: DEALLOCATE	[REPAIR]
R: DELETE xxxx CHAIN	[REPAIR]
R: FIX LINK	[REPAIR]
R: GIVE NEW VALUE	[REPAIR]

R: RECALCULATE	[REPAIR]
R: RECREATE SAT	[REPAIR]
R: SET EQUAL TO FILE KEY SIZE	[REPAIR]
R: SET FILE EMPTY	[REPAIR]
R: SWITCH TO USING BACKWARD LINKS	[REPAIR]
R: TRUNCATE xxxx CHAIN	[REPAIR]
R: USE BACKWARD FAB LINKS ONLY	[REPAIR]
R: ZERO OUT	[REPAIR]
RASM: ABORTED BY RASM = xyzz	[ASM] If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.
READ ERROR D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Save files; Editor exited.
READ ERROR SECTOR #xxxxxxxx	[INIT] During validation, a sector could not be read properly and was marked in the SAT and SLT. Additionally, when the S option is used with the alternate track capability, and a sector to be locked out is unreadable and found to be in use, i.e., allocated for a file.
READ PAST END OF FILE	[PASCAL]
REAL EXPECTED IN TEXT FILE	[PASCAL]
REAL NUMBER OUT OF RANGE IN TEXT FILE	[PASCAL]
RECORD NOT ON FILE	[E] (1) On Read: save files and exit Editor, (2) On Delete or Insert: message is displayed; continue.
RECORDS NOT SAME LENGTH	[COPY] When verifying two files, the record lengths were different.
RECOVER DELETED FILE (Y/N)?	[REPAIR]
REGISTER ENTERED IS INVALID	[SYMBUG]

REPAIR (Y/N)?	[REPAIR]
REPAIR ABORTED	[REPAIR]
REPAIR DONE	[REPAIR]
REPAIR TERMINATED	[REPAIR]
REPLACE ERROR D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Save files; Editor exited.
RESERVED EXPONENT VALUE SEEN AS INPUT OPERAND	[PASCAL]
RETURNED UNNORMALIZED NUMBER TO SINGLE OR DOUBLE PRECISION	[PASCAL]
RX=\$xxxx RA=\$xxxx RD=\$xxxx	[USM]
SAVE ERROR - FILE NOT CREATED	[E] System error.
SAVE ERROR D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Output file not saved; input file may not be closed; Editor exited.
SEARCH FOR STRING ERROR D0=xx0000zz	[E] If xx=18, zz is an entry in Table C-1; if xx=10, zz is an entry in Table C-2. Internal error. Save files; Editor exited.
SECTOR CHANGE BUFFER NOT READ IN YET	[DUMP] An F or N subcommand was entered before reading the sector change buffer with the R command.
SEGMENT ALLOCATION ERROR, D0 = xxxxxxxx SEG: dddd	[REPAIR]
SEGMENT END LESS THAN SEGMENT START	[SYSGEN] Invalid loader information block for load module.
SEGMENT ERROR - TASK LINKED INCORRECTLY	[LOADER] When running a task on a cache system with an MMU such as an MVME12x, the task must either be marked position-independent or the individual segments must be forced to start on an address boundary of specific granularity. For an MVME12x system, the segments must start on 1K boundaries. If the task is position-independent, the

VERSAdos loader automatically adjusts segment boundaries to an acceptable granularity. Refer to the M68000 Family Linkage Editor User's Manual for additional information.

SEGMENT NOT FOUND

[PRTDUMP]

SEGMENT START LESS THAN LOCATION COUNTER

[SYSGEN] The starting address of a process is less than SYSGEN's current location counter. Error can also be caused by task segment if running with P option.

SEGMENT STARTING ADDRESS OUT OF RANGE

[MERGEOS]

SEGMENT/MEMORY IMAGE CONFLICT

[SYSGEN] Invalid LIB for load module.

SKIP (Y/N)?

[REPAIR]

STACK/HEAP OVERFLOW

[PASCAL]

START OF SEGMENT NOT ON PAGE BOUNDARY

[SYSGEN] Invalid LIB for load module.

STRING NOT FOUND

[E] String not found during FIND or CHANGE command execution.

SYMBOL NAME ENTERED IS INVALID

[SYMBUG]

SYMBOL TABLE OVERFLOW

[SYSGEN] Too many parameters defined. Up to 170 parameters may be defined.

SYMbugttt ?

[SYMBUG] tttt is the first four letters of the foreground taskname. The user may respond with any primitive or task level SYMbug command.

SYMbug ?

[SYMBUG] The initial prompt in multitask mode. Only LOAD, ATTA, HELP, and QUIT commands are legal until a foreground task is declared.

SYMbugttt WHAT ?

[SYMBUG] A bell rings (on terminals so equipped) to signify a syntax error in the previous SYMbug command. Consult the HELP command listing.

SYNTAX ENTERED IS NOT CORRECT	[SYMBUG]
SYNTAX ERROR-EDIT TERMINATED	[E] An invalid command was entered in chain mode.
SYS A: BREAK RVCD!!	[SYSANAL]
SYS A: ERROR ON MEMORY MOVE - DO = xxxxxxxx	[SYSANAL]
SYS A: ERROR WRITING TO OUTPUT DEVICE - DO = xxxxxxxx	[SYSANAL]
SYS A: MEMORY NOT AVAILABLE FOR BUFFERS	[SYSANAL]
SYS A: OUTPUT DEVICE ASSIGNMENT ERROR - DO = xxxxxxxx	[SYSANAL]
SYS A: REENTER OUTPUT DEVICE NAME >	[SYSANAL]
SYS A: TASK NOT FOUND	[SYSANAL]
SYS A: WHAT ?	[SYSANAL]
SYSTEM VOLUME = vvvv	[USM]
TARGET TASK ADDRESS ERROR	[DEBUG] Breakpoint address out of program.
TARGET TASK ADDRESS ERROR	[SYMBUG]
TASKNAME MUST BE FIRST 4 CHARS OF .LO FILENAME	[SYMBUG]
TDMP: (UNABLE TO ALLOCATE DEFAULT FILE)	[TASKDUMP] The default filename for the dump, constructed from the aborted task's taskname and the time of day, cannot be used. Consult EMH message for cause.
TDMP: (UNABLE TO ALLOCATE DUMP FILE)	[TASKDUMP] The filename chosen could not be created on disk. Consult the EMH message for cause.
TDMP: DUMP TERMINATED -- LAST BLOCK ADDRESS=000000 SEGMENT=ssss	[TASKDUMP]
TEMP. FILE VOLUME ERROR	[SYSGEN] Only volume and user number fields can be specified for a temporary volume.
THE DISK CANNOT BE ACCESSED PROPERLY WITH THE GIVEN CONFIGURATION	[MT] Damaged configuration area or bad configuration entered by the user.

THE VID CANNOT BE MODIFIED FOR AUTOMATIC MOUNT	[MT] Disk is write protected.
THIS DISK TYPE CANNOT BE MOUNTED	[MT] VIDIPC field of sector 0 is invalid.
THIS OPTION IS NOT AVAILABLE	[INIT] An option letter following "," is not valid.
TOO MANY COMMAND LINE FIELDS	[PASCAL]
TOO MANY ERRORS ON DISC. INIT ABORTED	[INIT] During validation, when the alternate track capability is used, more errors are found than alternate tracks available. Twelve tracks per disk surface are used as potential alternates.
TOO MANY FILES IN USE	[PASCAL]
TOO MANY SEGMENTS	[SYSGEN] Invalid LIB for load module.
UNABLE TO ALLOCATE FILE RESTOREA.CF	[TDTIGEN1]
UNABLE TO ALLOCATE "fffffff" STATUS = \$xxxxxxxx	[TTGEN]
UNABLE TO ASSIGN FILE - ffffffff	[TTGEN]
UNABLE TO ASSIGN MENU FILE "fffffff"	[TTGEN]
UNABLE TO ASSIGN "fffffff" STATUS = \$xxxxxxxx	[TTGEN]
UNABLE TO ASSIGN VOLUME - ERROR xxxxxxxx	[REPAIR]
UNABLE TO READ FILE "fffffff"	[TTGEN]
UNABLE TO READ MENU FILE O.&TTMENU.MN - key = xxxx	[TTGEN]
UNABLE TO REWIND RESTOREA.CF TO START OF FILE	[TDTIGEN1]
UNCLAIMED VECTOR EXCEPTION, VECTOR NUMBER = \$xxxx	[IPL]
UNDERFLOW	[PASCAL]
UNKNOWN BREAKPOINT (TO DELETE)	[SYMBUG]
UNKNOWN TASKNAME	[DEBUG, SYMBUG] System problem -- bad taskname if TASK command.

UNMATCHED ENDC STATEMENT	[SYSGEN] An ENDC statement was detected that had no matching IFxx statement.
UNORDERED CONDITION TESTED BY PREDICATE OTHER THAN = OR <>	[PASCAL]
UPDATE dddd	[REPAIR]
UPLOADS ALLOCATING NEW FILE	[UPLOADS] Status; ready to continue.
USING K OPTION	[E] A command was attempted that is invalid while editing with the K option.
VALID FILENAME REQUIRED... nnnn...	[UPLOADS] Output parameter error. nnnn... is the first 30 characters of the command line.
VALUE ERROR	[REPAIR]
VALUE LOCATION INCORRECT	[DEBUG] PC not in program address space.
VALUE OUT OF RANGE	[PASCAL]
VERSADOS DOES NOT RECOGNIZE THE DISK	[MT] File directory cannot be accessed.
VOLUME FIELD NOT ALLOWED	[IPL]
VOLUME NOT FOUND	[DIR] Diskette not mounted on specified drive.
VOLUME 'xxxx' ALREADY ON THIS SYSTEM, USE ANOTHER VOLUME NAME	[INIT] The user has entered a volume that is already in use for another device.
WARNING - TASK NOT MARKED POSITION INDEPENDENT	[TTGEN]
WARNING--BAD SECTOR IN USER LOCK-OUT AREA	[INIT] During validation, an error was found in a sector that is already locked out (SAT, SLT, etc.).
WARNING--COULD NOT COPY ffffffff	[BACKUP] The file ffffffff could not be assigned on the input disk or was a spooler or temporary file; therefore, it was not backed up.

WARNING: NO."<" NOT EQUAL TO NO.">"	[USM]
WHAT?	[E, REPAIR] Syntax error - reenter command.
WORK BUFFER OVERFLOW - TOO MANY OFFSETS?	[PATCH] During substitution of an offset value for the "0" character, the buffer space was exceeded. The offset symbol is being used too many times in the operand field.
XTRACT BUFFER DELETED	[E] Buffer memory deallocated.
XTRACT BUFFER DOESN'T EXIST	[E] XTRACT buffer is created by executing MOVE, DUP, AMOV, or ADUP command only.
mmm MODULE NOT FOUND	[LIB] The module mmmm specified on command line was not found.
nnnn NOT TERMINATED - SPOOLING NOT INITIATED	[SPL] nnnn is a taskname equal to a device name trying to do output. To recover, terminate task nnnn, session &1. For example:
PR NOT TERMINATED-SPOOLING NOT INITIATED =TERM PR &1 =SPL <spooler volume name>	
ssss: DONE STATUS = xxxx:mmmm	[USM] ssss is the session number. xxxx is a hexadecimal value and mmmm a message, as follows:  A006: CANCELLED WAITING IN QUEUE C001: NORMAL TERMINATION FROM RUNNING C006: CANCELLED WHILE RUNNING C009: CANCELLED DUE TO BREAK C010: ABORTED DUE TO BUS ERROR (ADDRESS) C011: TERMINATED DUE TO BUS ERROR (ADDRESS)
ttt1: ABORTED BY ttt2 = xyzz	[USM] ttt1 is the taskname being aborted; ttt2 is the taskname requesting the abort. If x=0, zz is an entry in Appendix C; if x=1 or 2, zz is an entry in Appendix F.
tttt ABORTED. DO = zz	[SYSGEN] LINK or ASM terminated abnormally. tttt is a taskname. zz is an entry in Appendix C.
tttt ssss: ABORTED	[USM] tttt is the taskname. ssss is either an ASCII or binary session number.

tttt: ABORTED BY &SCT = 80zz	[USM] tttt is the taskname; zz is an entry in Appendix B.
tttt: ABORTED BY EXEC = 80zz	[USM] tttt is the taskname; zz is an entry in Appendix B.
xx ERRORS ENCOUNTERED	[SYSGEN] xx non-fatal errors encountered during SYSGEN processing; displayed at the completion of SYSGEN.
xx FHS ERROR, LUN = x	[TRANSFER]
xx IOS ERROR, LUN = x	[TRANSFER]
xxxx IS LAST LINE	[E] The vertical range requested is past the end-of-file.
xxxx HAS BEEN MOUNTED	[MT] xxxx is a device mnemonic or volume name.
xxxxxxxx LINES DELETED	[E] Number of lines deleted by DELETE, MOVE, or AMOV command.
xxxxxxxx RECORDS SAVED-BUFFER FULL	[E] During the execution of an AMOV or ADUP, the XTRACT buffer will not hold any more records. The buffer should first be moved by an XTRACT command, then cleared by an XTRACT A command.

## APPENDIX A

### MESSAGES ACCORDING TO TASK

This is a listing, according to task, of the messages listed alphabetically in Chapter 3.

#### ACCT

(none)

#### ASM

RASM: ABORTED BY RASM = xyzz

#### BACKUP

\*\*OUTPUT DISK FULL\*\* CONTINUE (Y/N)?  
DUPLICATE FILE - OK TO COPY (Y/N/Q) ?  
ERROR-INPUT DISK FOREIGN AND OUTPUT DISK LARGER  
ERROR-MUST USE A OPTION  
ERROR-OPTION A OR R BACKUP WITH FOREIGN DISK  
ERROR-OUTPUT DISK TOO SMALL  
ERROR-USE INIT COMMAND, THEN BACKUP WITH A OPTION  
ERROR-USE & CATALOG NOT ALLOWED WITH TRACK-BY-TRACK COPY OR VERIFY  
INPUT DISK IS FOREIGN - CONTINUE (Y/N)?  
WARNING-COULD NOT COPY ffffffff

#### BUILDS

ERROR-INPUT FILE IS NOT A LOAD MODULE  
ERROR-INPUT FILE MUST HAVE EXTENSION .LO OR .SY  
ERROR-NO INPUT FILE WAS SPECIFIED

#### CONFIG

\*\*\* ERROR \*\*\* CHOICE NOT MODIFIABLE  
\*\*\* ERROR \*\*\* DEVICE NAME MUST BE PRECEDED BY THE POUND SIGN, "#"  
\*\*\* ERROR \*\*\* INVALID DEVICE NAME  
\*\*\* ERROR \*\*\* INVALID SELECTION  
\*\*\* ERROR \*\*\* ONLY USER 0 CAN RECONFIGURE #xxxx  
\*\*\* ERROR \*\*\* ONLY USER 0 CAN PERFORM A CONFIGURE DEFAULTS  
\*\*\* ERROR \*\*\* #xxxx CANNOT BE RECONFIGURED UNTIL THE SPOOLER IS DEACTIVATED  
\*\*\* ERROR \*\*\* #xxxx DOES NOT EXIST  
\*\*\* ERROR \*\*\* xxxx IS AN INVALID BAUD RATE  
\*\*\* ERROR \*\*\* xxxx : VALUE OUT OF RANGE

**A**

\*\*\* NOTE \*\*\* PRINT COMMAND EXECUTED  
\*\*\* NOTE \*\*\* #xxxx HAS BEEN CONFIGURED  
\*\*\* NOTE \*\*\* #xxxx IS READY FOR CONFIGURATION  
\*\*\* SORRY \*\*\* DEVICE TYPE IS NOT DEFINED  
\*\*\* SORRY \*\*\* #xxxx CANNOT BE CONFIGURED  
\*\*\* SORRY \*\*\* #xxxx CANNOT BE RECONFIGURED UNTIL MORE MEMORY IS FREED  
\*\*\* SORRY \*\*\* #xxxx IS BUSY  
\*\*\* SORRY \*\*\* #xxxx IS BUSY AND CANNOT BE RECONFIGURED AT THIS TIME  
\*\*\* SORRY \*\*\* #xxxx NOT READY OR POSSIBLY NOT THERE

**CONNECT**

ERROR-THE DEVICE NAME FOR A TERMINAL MUST BE SPECIFIED  
ERROR-THE DEVICE NAME FOR A TERMINAL CANNOT BE YOUR OWN  
ERROR-INVALID OPTION  
ERROR-LINE NUMBER IN L OPTION IS OUT OF RANGE 10..32  
ERROR-INVALID ENTRY

**COPY**

ATTRIBUTES NOT THE SAME FOR OVERWRITE  
ERROR-END OF FILE NOT REACHED  
ERROR-INPUT AND OUTPUT NAMES ARE THE SAME  
FILE EXISTS - OK TO OVERWRITE (Y/N)?  
RECORDS NOT SAME LENGTH

**CREF**

(none)

**DEBUG**

ATTACH NOT ALLOWED  
BAD PARM BLOCK  
BAD TARGET TASK  
BREAKPOINT TABLE FULL  
BREAKPOINTS LOCKED IN EXECUTION  
BUFFER ADDRESS WRONG  
CANNOT HANDLE BREAKS  
DETACH NOT ALLOWED  
ERROR TRAP x ERROR CODE: yyzz  
EVENT NOT SENT  
LOAD ERROR  
MSG FROM ASQ WRONG  
NO ASQ  
NO MEMORY FOR ASQ  
NO MEMORY FOR TCB  
NO ROOM TO ATTACH tttt

TARGET TASK ADDRESS ERROR  
UNKNOWN TASKNAME  
VALUE LOCATION INCORRECT

**DEL**

(none)

**DIR**

FILE NOT ON VOLUME nnnn  
VOLUME NOT FOUND

**DISPATCH**

(none)

**DMT**

(none)

**DUMP**

END OF SECTOR REACHED  
ERROR-INPUT AND OUTPUT NAMES ARE THE SAME  
INVALID DEVICE  
INVALID SUBCOMMAND FOR NONCONTIGUOUS FILE  
OUTPUT FILE EXISTS - OK TO OVERWRITE (Y/N)?  
SECTOR CHANGE BUFFER NOT READ IN YET

**DUMPANAL**

DMPA: BREAK RVCD  
DMPA: DISK READ ERROR - D0 = xxxxxxxx  
DMPA: ERROR WRITING TO OUTPUT DEVICE - D0 = xxxxxxxx  
DMPA: MEMORY NOT AVAILABLE FOR BUFFERS  
DMPA: REENTER OUTPUT DEVICE NAME  
DMPA: TASK NOT FOUND

**E**

2 LOGICAL UNITS NOT AVAILABLE  
ASQ ERROR D0=xx0000zz  
BOF OR EOF ENCOUNTERED  
BREAK WAS INPUT

## A

CANNOT HANDLE BREAKS D0=xx0000zz  
CLOSE ERROR D0=xx0000zz  
COMMAND ABORTED BY BREAK KEY  
COMMAND LINE ERROR  
DATA OVERRUN I/O ERROR  
DELETE ERROR D0=xx0000zz  
ERROR - CHANGE ACCESS D0=xx0000zz  
ERROR - IOS CALL D0=xx0000zz  
ERROR - MERGE NOT EXECUTED  
ERROR - RETRIEVE ATTRIBUTES D0=xx0000zz  
FILE DOESN'T EXIST  
FILENAME2 EXISTS, OVERWRITE (Y/N)?  
I/O FRAMING ERROR  
ILLEGAL FMS COMMAND CODE x  
ILLEGAL INPUT FILENAME D0=xx0000zz  
ILLEGAL OUTPUT FILENAME D0=xx0000zz  
INCOMPATIBLE FILE TYPES - NO MERGE  
INSERT ERROR D0=xx0000zz  
INSUFFICIENT DIRECTORY SPACE  
INSUFFICIENT DISK SPACE  
INTERNAL LIST ERROR  
INVALID COMMAND-NO FILE RECORDS  
INVALID KEYSIZE - OUTPUT FILE  
INVALID OPTION WITH NEW FILENAME  
INVALID OPTIONS  
INVALID TAB OPTIONS - USING DEFAULTS  
LUN NOT AVAILABLE - NOT EXECUTED  
MAXIMUM OF TAB SET (20)  
NEW FILENAME1-FILENAME2 IGNORED - CONTINUE (Y/N)?  
NO DATA MOVED TO XTRACT BUFFER  
NO RECORDS INSERTED - BUFFER FULL  
OPEN ERROR D0=xx0000zz  
OUTPUT FILE EXISTS - SAVE NOT DONE  
PRINTER BUSY  
PRINTER NOT READY  
READ ERROR D0=xx0000zz  
RECORD NOT ON FILE  
REPLACE ERROR D0=xx0000zz  
SAVE ERROR - FILE NOT CREATED  
SAVE ERROR D0=xx0000zz  
SEARCH FOR STRING ERROR D0=xx0000zz  
STRING NOT FOUND  
SYNTAX ERROR-EDIT TERMINATED  
USING K OPTION  
WHAT?  
XTRACT BUFFER DELETED  
XTRACT BUFFER DOESN'T EXIST  
xxxx IS LAST LINE  
xxxxxxxx LINES DELETED  
xxxxxxxx RECORDS SAVED-BUFFER FULL

EMFGEN

(none)

FREE

(none)

INIT

CANNOT ENTER LOCKOUT ENTRIES ON A FOREIGN DISK  
CANNOT LOCKOUT SECTORS IN TRACK ZERO, ENTRY NOT ALLOWED.  
CANNOT USE S OPTION ON A FLOPPY  
CONFIGURATION ERROR -- xxxxxxxx  
ERROR SECTOR ALLOC TABLE EXCEEDED  
LOCK TABLE ENTRY ALREADY ALLOCATED, ENTRY NOT ALLOWED.  
MEDIA NOT DEFINED--BAD TOTAL NUMBER OF SECTORS RETURNED FROM THE IPC  
MEMORY SEGMENT ALLOCATION ERROR!!!  
READ ERROR SECTOR #xxxxxxxx  
TOO MANY ERRORS ON DISC. INIT ABORTED  
VOLUME 'xxxx' ALREADY ON THIS SYSTEM, USE ANOTHER VOLUME NAME  
WARNING--BAD SECTOR IN USER LOCK-OUT AREA  
PRINTER UNAVAILABLE, HARDCOPY OUTPUT SKIPPED

IPL

BAD STATUS CMD. FROM IPC = \$xxxx  
BAD STATUS FROM EXTERNAL DISKIO ROUTINE = \$xxxx  
BAD STATUS FROM IPC = \$xxxx  
BOOT COMPLETE  
BOOT IN PROGRESS  
BUS ERROR ACCESSING RAM - INITIALIZE RAM AND TRY AGAIN  
ERROR IN FILE SPECIFICATION  
ERROR IN OPTION FIELD  
FILE NOT FOUND  
INCORRECTLY FORMATTED RETURN PACKET FROM IPC  
INVALID COMMAND LINE  
INVALID FILE TYPE  
IPC SHARED MEMORY NOT FREE  
IPC SHARED MEMORY READ/WRITE MISMATCH  
NAK RECEIVED FROM IPC  
UNCLAIMED VECTOR EXCEPTION, VECTOR NUMBER = \$xxxx  
VOLUME FIELD NOT ALLOWED

**A**LIB

BAD MODULE NAME  
ERROR-CHECK FOR \*TEMLIB.R0\*  
FILE ALREADY EXISTS  
FILENAME IS AN INVALID FILE TYPE  
INSERT AFTER MODULE mmmm NAME NOT FOUND  
INVALID ENTRY  
INVALID MODULE NAME  
LIBRARY DOES NOT EXIST  
MODULE NAME ALREADY IN LIBRARY  
NO MODULE ID RECORDS  
mmmm MODULE NOT FOUND

LINK

\*\* ERROR xxx - mmmm  
\*\* WARNING xxx - mmmm  
LINK: ABORTED BY LINK = xyzz

LIST

CAN'T LIST A CONTIGUOUS FILE  
CAN'T LIST A DEVICE  
ERROR-INPUT AND OUTPUT NAMES ARE THE SAME

MBLM

\*\*BUFFER ERROR\*\*  
\*\*COMMAND LINE ERROR\*\*  
\*\*ERROR\*\*DUPLICATE FILENAME\*\* REUSE FILE (Y/N)?  
\*\*FILE HANDLING ERROR\*\* LUN = n, STATUS = \$zz  
\*\*INPUT/OUTPUT ERROR\*\* LUN = n, STATUS = \$zz  
\*\*S-RECORD ERROR\*\*

MERGEOS

COMMAND LINE ERROR  
INPUT FILE ERROR  
INPUT FILE MUST BE CONTIGUOUS  
INVALID SEGMENT INFORMATION  
MERGE NOT PERFORMED  
OK TO MERGE (Y/N/Q) ?  
OUTPUT FILE ERROR  
OUTPUT FILE MUST BE CONTIGUOUS  
SEGMENT STARTING ADDRESS OUT OF RANGE

MIGR

BUFFER OVERFLOW ERROR  
COMMAND ERROR  
DEVICE NAME ERROR  
DUPLICATE FILENAME - REUSE (Y/N)?  
EOF ERROR  
FILE FORMAT NOT ASCII  
FILENAME NOT FOUND  
INPUT FILENAME ERROR  
OUTPUT FILENAME ERROR

MT

A DISK IS ALREADY MOUNTED ON THE DEVICE  
CONFIGURATION ERROR CODE \$xx  
MOUNT IS NOT NEEDED FOR IPC DISKS  
NO CONFIGURATION DATA IS AVAILABLE FOR THIS DISK  
ONLY THE OWNER OF THE DISK OR USER 0 MAY MOUNT  
ONLY USER 0 CAN USE D (MOUNT DRIVE) OPTION  
THE DISK CANNOT BE ACCESSED PROPERLY WITH THE GIVEN CONFIGURATION  
THE VID CANNOT BE MODIFIED FOR AUTOMATIC MOUNT  
THIS DISK TYPE CANNOT BE MOUNTED  
VERSADOS DOES NOT RECOGNIZE THE DISK  
xxxx HAS BEEN MOUNTED

NOVALID

(none)

PASCAL

(+INFINITY) + (-INFINITY) IN AFFINE MODE  
0 \* INFINITY  
ADDRESS ERROR - BAD POINTER OR STACK/HEAP OVERFLOW  
AN ARGUMENT WAS A TRAPPING NOT-A-NUMBER  
ATTEMPT TO ENABLE 6809 FLOATING POINT TRAP  
ATTEMPT TO SET 6809 FLOATING POINT EXCEPTION  
ATTEMPT TO SET 6809 FLOATING POINT PRECISION MODE  
ATTEMPT TO TAKE NAN(0)  
BINARY-TO-DECIMAL OR DECIMAL-TO-BINARY CONVERSION OUT OF RANGE  
BOOLEAN EXPECTED IN TEXT FILE  
BUS ERROR - BAD POINTER OR STACK/HEAP OVERFLOW  
CASE INDEX OUT OF RANGE  
CONVERSION OF A NOT-A-NUMBER TO AN INTEGER  
DIVISION BY ZERO  
FILE NOT OPEN AT INPUT  
FILE NOT OPEN AT OUTPUT

**A**

ILLEGAL DIVISION  
ILLEGAL FILENAME  
ILLEGAL REM ARGUMENTS  
ILLEGAL SQRT ARGUMENT  
ILLEGAL TRAP #14 ERROR CODE - INTERNAL PASCAL ERROR  
INEXACT RESULT  
INTEGER DIVISION BY ZERO  
INTEGER EXPECTED IN TEXT FILE  
INVALID BASE FOR INTEGER IN TEXT FILE  
INVALID DIGIT FOR BASED INTEGER IN TEXT FILE  
INVALID OPERATION  
MEMORY ALLOCATION ERROR DURING PROCESSING Z OPTION  
MOVED SINGLE PRECISION UNNORMALIZED TO DOUBLE PRECISION  
NO INVALID OPERATION ERROR  
OPTION ERROR IN 'RESET' OR 'REWRITE'  
OVERFLOW  
OVERFLOW ON CONVERSION FROM FLOATING POINT TO INTEGER  
PROJECTIVE CLOSURE USE OF +/- INFINITY  
READ PAST END OF FILE  
REAL EXPECTED IN TEXT FILE  
REAL NUMBER OUT OF RANGE IN TEXT FILE  
RESERVED EXPONENT VALUE SEEN AS INPUT OPERAND  
RETURNED UNNORMALIZED NUMBER TO SINGLE OR DOUBLE PRECISION  
STACK/HEAP OVERFLOW  
TOO MANY COMMAND LINE FIELDS  
TOO MANY FILES IN USE  
UNDERFLOW  
UNORDERED CONDITION TESTED BY PREDICATE OTHER THAN = OR <>  
VALUE OUT OF RANGE

**PASCAL1**

PAS1: ABORTED BY PAS1 = xyzz

**PASCAL2**

PAS2: ABORTED BY PAS2 = xyzz

**PATCH**

ASSEMBLY LANGUAGE SYNTAX ERROR  
END OF MEMORY IMAGE REACHED  
INPUT FILE MUST BE A LOAD MODULE  
INSTRUCTION ADDRESSES MUST BE EVEN  
INVALID ADDRESS  
OLD LIB FORMAT - INPUT FILE MUST BE LINKED WITH LINK 1.90 OR LATER  
QUOTE STRING ERROR  
WORK BUFFER OVERFLOW - TOO MANY OFFSETS?

PRTDUMP

ADDRESS xxxxxx  
SEGMENT NOT FOUND

RENAME

BOTH PROTECTION CODES ARE REQUIRED  
ERROR (READ OR WRITE) PROTECTION CODE  
ERROR-READ > PROTECTION CODE  
ERROR-WRITE > PROTECTION CODE

REPAIR

BREAK KEY! -  
CDF NOT ASSIGNED  
COMMAND LINE ERROR  
CRC ERROR ON READ xxxx, PSN =xxxxxxxx, dddd, xxxx  
ER: BAD FAB BACKWARD LINK, PSN =xxxxxxxx  
ER: BAD FAB CONTENTS  
ER: BAD FAB FORWARD LINK, PSN =xxxxxxxx  
ER: BAD TEST PATTERN  
ER: CATALOG NAME  
ER: CHECKSUM  
ER: DB KEY ORDER, PSN =xxxxxxxx  
ER: DB PSN ERROR, PSN =xxxxxxxx, LENGTH =xxxxxxxx  
ER: DB SIZE = xx  
ER: DISK NOT A VERSADOS VOLUME  
ER: DUMP AREA PSN ERROR  
ER: EMPTY FAB, PSN =xxxxxxxx  
ER: EMPTY FILE - LAST FAB PSN NOT 0  
ER: EOF/EOR AND FAB/DB CONFLICT  
ER: EXTENSION  
ER: FAB SIZE = xx  
ER: FAB USAGE FRACTION  
ER: FAB/DB KEY CONFLICT (L, F, or H)  
ER: FAB/DB RECORD CONFLICT, PSN =xxxxxxxx  
ER: FAB/DB SECTOR CONFLICT, PSN =xxxxxxxx  
ER: FDB SIZE = xx  
ER: FILE ATTRIBUTE  
ER: FILENAME  
ER: FILE NOT FOUND  
ER: KEY SIZE = xx (I, D, S, H, or E)  
ER: LAST DB SIZE  
ER: NO FAB LINKS  
ER: RECORD LENGTH = xxxx  
ER: SAT LENGTH =xxxxxxxx  
ER: SAT PSN =xxxxxxxx  
ER: SDB PSN =xxxxxxxx

**A**

ER: SLS PSN BAD  
ER: SLT PSN ERROR  
ER: TST PSN ERROR  
ER: UNUSED SECTORS MARKED ALLOCATED IN SAT  
ER: USER, CATALOG NAME CONFLICT, PSN = xxxxxxxx  
ER: VOLUME DESCRIPTOR  
ER: VOLUME NAME  
ER: dddd LINK, PSN = xxxxxxxx  
ER: dddd NOT ALLOCATED IN SAT, PSN = xxxxxxxx  
ER: dddd REALLOCATED AFTER FILE DELETED, PSN = xxxxxxxx  
ER: dddd RESERVED FIELD NOT ZERO, PSN = xxxxxxxx  
ER: dddd SPACE ALREADY ALLOCATED, PSN = xxxxxxxx  
ERROR FROM WRITE, STARTING PSN = xxxxxxxx  
FREE LOGICAL UNIT x  
GIVE NEW NAME  
INTERNAL ERROR x  
INVALID DEVICE  
IO ERROR, DO = xxxxxxxx FROM (READ or WRITE) dddd  
LAST FAB PSN = xxxxxxxx  
NO DIRECTORIES  
OFFSET ERROR  
PRINTER ERROR, DO = xxxxxxxx  
PRIOR FAB PSN = xxxxxxxx  
PSN ERROR  
QUIT (Y/N)?  
R: ALLOCATE xxxx  
R: DEALLOCATE  
R: DELETE xxxx CHAIN  
R: FIX LINK  
R: GIVE NEW VALUE  
R: RECALCULATE  
R: RECREATE SAT  
R: SET EQUAL TO FILE KEY SIZE  
R: SET FILE EMPTY  
R: SWITCH TO USING BACKWARD LINKS  
R: TRUNCATE xxxx CHAIN  
R: USE BACKWARD FAB LINKS ONLY  
R: ZERO OUT  
RECOVER DELETED FILE (Y/N)?  
REPAIR (Y/N)?  
REPAIR ABORTED  
REPAIR DONE  
REPAIR TERMINATED  
SEGMENT ALLOCATION ERROR, DO = xxxxxxxx SEG: dddd  
SKIP (Y/N)?  
UNABLE TO ASSIGN VOLUME - ERROR xxxxxxxx  
UPDATE dddd  
VALUE ERROR  
WHAT?

**SPL**

MUST BE USER 0  
nnnn NOT TERMINATED - SPOOLING NOT INITIATED

**SCRATCH**

(none)

**SRCCOM**

INVALID OPTION FIELD!  
FILE #1 NAME MISSING!  
FILE #1 ('fffffff') DOES NOT EXIST!  
FILE #2 NAME MISSING!  
FILE #2 ('fffffff') DOES NOT EXIST!

**SESSIONS**

(none)

**SNAPSHOT**

(none)

**SPPOOL**

(none)

**SYMBUG**

ADDITIONAL PARAMETER(S) NEEDED  
ADDRESS ENTERED IS INVALID  
ADDRESS MUST BE EVEN  
ADDRESS RANGE ENTERED IS INVALID  
CANNOT ATTACH A SYSTEM TASK  
CHARACTERS ENTERED EXCEEDED BUFFER SIZE  
COMMAND ENTERED IS NOT [YET] SUPPORTED  
COMMAND NOT VALID YET  
EVEN ADDRESS IS REQUIRED  
EXPRESSION ENTERED IS INVALID  
FAILED TO ASSIGN LUN TO TASK  
FAILED TO CHANGE TASK STATUS  
I/O ERROR FOR SCREEN  
I/O ERROR WHILE PROCESSING HELP FILE  
I/O ERROR WHILE PROCESSING PROFILE FILE  
I/O ERROR WHILE SAVING EMULATOR CONFIGURATION

**A**

INVALID EMULATOR ID NUMBER  
INVALID MACRO PARAMETER  
INVALID VERSAdos FILENAME SPECIFIED  
MACRO EXPANSION ERROR  
MACRO PARAMETER ERROR  
MACRO PARAMETER IS MISSING  
MACRO/SYMBOL NAME IS NOT DEFINED  
MACRO/SYMBOL TABLE IS FULL  
NUMBER ENTERED IS OUT OF RANGE  
NUMBER/VALUE ENTERED IS INVALID  
OPTION ENTERED IS INVALID  
Q TO QUIT: <CR> CONTINUES.  
PARSER ERROR NUMBER ...xxxx  
REGISTER ENTERED IS INVALID  
SYMBOL NAME ENTERED IS INVALID  
SYMbugttt ?  
SYMbug ?  
SYMbugttt WHAT?  
SYNTAX ENTERED IS NOT CORRECT  
TARGET TASK ADDRESS ERROR  
TASKNAME MUST BE FIRST 4 CHARS OF .LO FILENAME  
UNKNOWN BREAKPOINT (TO DELETE)  
UNKNOWN TASKNAME  
}---> tttt ATTACHED

**SYSANAL**

SysA: BREAK RCVD!!  
SysA: ERROR ON MEMORY MOVE - DO = xxxxxxxx  
SysA: ERROR WRITING TO OUTPUT DEVICE - DO = xxxxxxxx  
SysA: MEMORY NOT AVAILABLE FOR BUFFERS  
SysA: OUTPUT DEVICE ASSIGNMENT ERROR - DO = xxxxxxxx  
SyDA: REENTER OUTPUT DEVICE NAME  
SyDA: TASK NOT FOUND  
SyDA: WHAT?

**SYSGEN**

\*\*DUPLICATE PARAMETER  
\*\*FILENAME MISSING  
\*\*FILENAME TOO LONG  
\*\*INVALID FILE DESCRIPTOR  
\*\*INVALID FILE TYPE  
\*\*INVALID LINK STATEMENT  
\*\*INVALID PARAMETER  
\*\*INVALID SEGMENT NAME  
\*\*INVALID STATE OR ATTRIBUTE  
\*\*INVALID TASKNAME  
\*\*INVALID VALUE

\*\*NEW PC LESS THAN OLD  
\*\*NEW PC MUST BE ON PAGE BOUNDARY  
\*\*NO SEGMENTS PROCESSED  
\*\*PC=\$XXXXXXXX  
\*\*SUBSTITUTION RECORD TOO BIG  
\*\*SYNTAX ERROR  
\*\*TOO MANY EXCLUDED SEGMENTS  
\*\*VALUE TOO BIG  
\*\*fffff SEGMENT NOT FOUND  
\*\*nnnnnnnn NOT DEFINED  
BOOT FILE ERROR  
INPUT FILE ERROR  
INPUT FILE REQUIRED  
LIST DEVICE/FILE ERROR  
NO OUTPUT FILE CREATED  
SEGMENT END LESS THAN SEGMENT START  
SEGMENT START LESS THAN LOCATION COUNTER  
SEGMENT/MEMORY IMAGE CONFLICT  
START OF SEGMENT NOT ON PAGE BOUNDARY  
SYMBOL TABLE OVERFLOW  
TEMP. FILE VOLUME ERROR  
TOO MANY SEGMENTS  
UNMATCHED ENDC STATEMENT  
ttt ABORTED. DO = zz  
xx ERRORS ENCOUNTERED

### TASKDUMP

TDMP: (UNABLE TO ALLOCATE DEFAULT FILE)  
TDMP: (UNABLE TO ALLOCATE DUMP FILE)  
TDMP: DUMP TERMINATED -- LAST BLOCK ADDRESS=000000 SEGMENT=ssss

### TDTIGEN1

ALLOCATED FILE RESTOREA.CF BUT UNABLE TO ASSIGN IT  
ERROR: INVALID PRODUCT CATALOG VALUE  
ERROR: INVALID SYSTEM TYPE  
ERROR: INVALID USER NUMBER VALUE  
ERROR: INVALID VOLUME NAME  
ERROR: PRODUCT CATALOG EXCEEDS EIGHT CHARACTERS  
ERROR: SYSTEM TYPE EXCEEDS ONE CHARACTER  
ERROR: USER NUMBER EXCEEDS FOUR CHARACTERS  
ERROR: VOLUME NAME EXCEEDS FOUR CHARACTERS  
ERROR IN READ OF "&.RESTOREA.CF" FILE  
ERROR IN WRITE OF "&.RESTOREA.CF" FILE  
UNABLE TO ALLOCATE FILE RESTOREA.CF  
UNABLE TO REWIND RESTOREA.CF TO START OF FILE

**A****TRANSFER**

BAD CHARACTER COUNT RECEIVED EXPECTED - RETRANSMITTING  
BAD CHECKSUM RECEIVED EXPECTED - RETRANSMITTING  
BAD FILE NAME ENTERED - REENTER NAME OR 'Q' TO QUIT  
COMMAND LINE ERROR  
FILE EXISTS - OK TO OVERWRITE (Y/N) ?  
OPTION FIELD ERROR  
xx FHS ERROR, LUN = x  
xx IOS ERROR, LUN = x

**TTGEN**

\*\*\*\*\* NO FILE NAME DEFINED FOR ENTRY "  
CAN'T ASSIGN "fffffff"  
CAN'T READ FILE "fffffff" STATUS = \$xxxxxxxx  
ERROR WRITING TO OUTPUT FILE, STATUS = xxxxxxxx  
INVALID COMMAND LINE  
INVALID FILE NAME SPECIFIED ON COMMAND LINE  
INVALID RESPONSE --- PRESS RETURN TO CONTINUE  
UNABLE TO ALLOCATE "fffffff" STATUS = \$xxxxxxxx  
UNABLE TO ASSIGN FILE - ffffffff  
UNABLE TO ASSIGN "fffffff" STATUS = \$xxxxxxxx  
UNABLE TO ASSIGN MENU FILE "fffffff"  
UNABLE TO READ FILE "fffffff"  
UNABLE TO READ MENU FILE O.&.TTMENU.MN - KEY = xxxx  
WARNING - TASK NOT MARKED POSITION INDEPENDENT

**UPLOADS**

\*\*ERROR\*\* FILE DOES NOT START WITH "S0"  
\*\*NOTE\*\* NO S9 RECORD ON EXISTING FILE  
\*STATUS\* CHECKSUM ERROR nnnn...  
\*STATUS\* NO ERROR SINCE LAST STATUS  
\*STATUS\* NO ERROR SINCE START OF PROGRAM  
\*STATUS\* NON HEX DIGIT FOUND nnnn...  
\*STATUS\* RECORD LENGTH ERROR nnnn...  
FHS/IOS ERROR zz AT xxxx  
FILE EXISTS... S-RECORDS WILL BE APPENDED  
UPLOADS ALLOCATING NEW FILE  
VALID FILENAME REQUIRED... nnnn...

**USM**

-----> BREAK!  
----->CAUTION: YOU WILL CHANGE PASSWORD FOR USER = 0 <-----  
BATCH JOB ssss CANCELLED  
BATCH SESSION NOT FOUND

ER: "IF" LEVEL EXCEEDED  
ER: "fffffff" COMMAND NOT FOUND  
ER: "vvvv" VOLUME NOT FOUND  
ER: =/ENDIF'S EXCEED =/IF'S  
ER: ACCESS PERMISSION  
ER: BATCH NOT ALLOWED IN BATCH MODE  
ER: BATCH QUEUE FULL  
ER: BATCH SESSION NUMBER  
ER: CANNOT BE CONTINUED, MUST BE STARTED  
ER: CHAIN COMMAND SYNTAX  
ER: COMMAND SYNTAX  
ER: DEFAULT VOLUME NOT CHANGED  
ER: DEVICE NOT ALLOWED  
ER: FIELD SIZE EXCEEDED  
ER: FILE WAS NOT ASSIGNED  
ER: FILE/DEVICE MISSING  
ER: INVALID FILE DESCRIPTOR  
ER: INVALID LU NUMBER  
ER: INVALID TASKNAME  
ER: INVALID USER NO.  
ER: LOGON TERMINAL NOT AVAILABLE IN BATCH MODE  
ER: LUN nn NOT ASSIGNED  
ER: MUST BE IN CHAIN MODE  
ER: MUST BE STARTED INDIVIDUALLY BY TASKNAME  
ER: NESTING LEVEL EXCEEDS NO. LUNS PER TASK  
ER: NO CHANGE TO VOLUME, USER NUMBER, OR CATALOG  
ER: NO ROOM IN RETURN STACK SPACE (TOO MANY ARGUMENTS)  
ER: NO. ARGUMENTS EXCEEDS STACK SPACE  
ER: NOT ALLOWED IN BATCH MODE  
ER: NOT ALLOWED ON LINE, SUBMIT IN BATCH MODE  
ER: NOT USER = 0  
ER: NUMERICAL CONVERSION ERROR  
ER: OPTION LETTERS ARE A-O ONLY  
ER: RECORD NOT FOUND  
ER: TASK NOT FOUND  
ER: USER NO. NOT FOUND  
ER: USER NUMBER NOT FOUND  
ER: VALUE SIZE TOO BIG  
ER: VALUES REVERSED  
ER: YOU FAILED IN YOUR ATTEMPT TO CRASH THE SYSTEM  
LOGON REJECTED, LOGGED OFF  
RX=\$xxxx RA=\$xxxx RD=\$xxxx  
WARNING: NO."<" NOT EQUAL TO NO.">"  
ssss: DONE STATUS = xxxx:mmmm  
ttt1: ABORTED BY ttt2 = xyzz  
tttt ssss: ABORTED  
tttt: ABORTED BY &SCT = 80zz  
tttt: ABORTED BY EXEC = 80zz

VALID

(none)

**A**

THIS PAGE INTENTIONALLY LEFT BLANK.

## APPENDIX B

## ABORT CODES

80zz	DESCRIPTION
------	-------------

Abort code generated by online session control (&SCT):

- |      |                       |                                      |
|------|-----------------------|--------------------------------------|
| 8006 | User terminal request | Abort requested by user at terminal. |
| 8009 | Break notification    | BREAK key pressed.                   |

Abort code generated by the Executive if any of the following conditions occur and no user exception handler exists:

8010	Bus error	This task has attempted to access a memory location outside its own address space.
8011	Address error	This task has attempted to access a word or a longword operand, or an instruction at an odd address.
8012	Illegal instruction	This task has attempted to execute a bit pattern that is not the bit pattern of a legal instruction.
8013	Zero divide	Task attempted to divide by zero.
8014	CHK instruction	An error condition was detected when the CHK instruction was executed.
8015	TRAPV instruction	An overflow condition was detected when the TRAPV instruction was executed.
8016	Privilege violation	User task attempted to execute one of the following privileged instructions: STOP, RESET, RTE, MOVE to SR, ANDI to SR, EORI to SR, ORI to SR, or MOVE USP.
8017	Unimplemented instruction	This task attempted to execute an instruction with the bit pattern "1010" in bits 15 through 12.
8018	Unimplemented instruction	This task attempted to execute an instruction with the bit pattern "1111" in bits 15 through 12.
8040	Exception monitor aborted	This task was running under the control of an Exception Monitor when the Exception Monitor aborted.

**B**

THIS PAGE INTENTIONALLY LEFT BLANK.

APPENDIX C  
FHS/IOS ERROR CODES

TABLE C-1. File Handling Service (FHS) Error Messages

ZZ	DESCRIPTION
00	No error.
01	FHS trap server does not exist. Probably caused by system problem.
02	Invalid command. Command specified is not valid for device, reserved bytes in FHS block are not zero, or options conflict with command.
03	Invalid logical unit. An LUN was specified that is larger than the maximum accommodated by the system. The maximum LUN is a SYSGEN parameter.
04	Volume error. Volume specified is not mounted.
05	Duplicate filename. On Allocate call, file already exists.
06	File descriptor error. Filename, extension, or catalog not all alphanumeric with first character alphabetic.
07	Protect code error. Read/write protect codes in parameter block conflict with file/device codes.
08	Record length error. On an Allocate request, record length specified not even or too large for data block size.
09	Shared segment error. On an Assignment request, user's passed shared segment logical address conflicts with other address space or user has too many segments. Attempted change LUN request with shared segment.
0A	Insufficient directory space. On an attempt to allocate a file or rename a file, disk space is insufficient to insert the new directory entry.
0B	Access permission error. On an Assignment request, requested access permission conflicts with existing access permission. On other FHS requests requiring an assignment, file/device not assigned EREW.
0C	Insufficient system space. Not enough memory exists to allocate a segment for the file's data block and FAB. This error could occur on assignment if a shared segment is requested, or error could occur on first I/O request.

C

TABLE C-1. File Handling Service (FHS) Error Messages (cont'd)

ZZ	DESCRIPTION
0D	Invalid assignment. On an Assignment request, LUN requested is already assigned. On other FHS requests requiring an assignment, LUN specified is not assigned.
0E	Invalid device type. An Allocate or Delete request was made for a non-random access device.
0F	Buffer overflow. On a Fetch-Device-Mnemonics request, the user parameter block specified for the returned information is not large enough to accommodate all device mnemonics.
10	Invalid taskname. On a change LUN request, the taskname or session specified in the parameter block is for a non-existent task.
11	Invalid buffer address. Address of user's parameter block for returned information on Fetch-Next-Directory-Entry or Fetch Device-Mnemonics request is not in user's segment space or not in read/write segment; or address is odd.
12	Invalid file type. On an Allocate request, file type specified is invalid.
13	Internal FHS error caused by system problem.
14	Invalid parameter block address. User's FHS block not in his segment space or not in read/write segment; or address is odd.
15	Data block length error. On an Allocate request, the data block size specified for a non-contiguous file is less than 4.
16	Size error. On an Allocate request, size specified for a contiguous file is zero.
17	Non-existent filename. On an Assignment or Delete request, the file specified does not exist.
18	End of directory. Returned on a Fetch-Next-Directory-Entry request when no more directory entries exist.
19	Key length error. On an Allocate request, the key length specified for an indexed sequential file is less than 4 or greater than 100, not even, or greater than the record length.

TABLE C-1. File Handling Service (FHS) Error Messages (cont'd)

ZZ	DESCRIPTION
1A	FAB length error. On an Allocate request, the FAB length specified for a non-contiguous file is greater than 20.
1B	Default volume not defined on Fetch-Default-Volume request.
1C	File not ready to output.
1D	User number not owner or user 0.

**C**

TABLE C-2. Input/Output Service (IOS) Error Messages

ZZ	DESCRIPTION
00	No error.
40	Invalid device configuration parameter. This error indicates an attempt was made to configure a parameter for a device on the bus that is valid for the bus itself.
41	Invalid system controller configuration parameter. An attempt was made to configure the bus with system controller capabilities, but the VME300 system controller DIP switch (part of S1) was not set to indicate the interface has system controller capabilities.
42	Invalid primary address. An attempt was made to configure a device (either the bus or a busable device) with an invalid General Purpose Interface Bus (GPIB) primary address. The allowable range of primary addresses is 0 through 30.
81	IOS trap server does not exist. Most likely caused by system problem.

PARAMETER BLOCK ERRORS

- 82 Invalid function. Function specified is not valid for device, reserved bytes in IOS block are not zero, or options conflict with function. Also occurs if current access permission does not permit requested function (i.e., Write request with Read-Only access permission).
- 83 Invalid logical unit. Logical unit specified is not assigned.

TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

ZZ	DESCRIPTION
84	Invalid data buffer. Buffer starting address is odd or ending address is less than starting address. Can also occur if data buffer is incorrect size for specific I/O request (not multiple of 256 bytes for contiguous file or volume I/O, not equal to record size for fixed length records, larger than data block length for variable length records, larger than 256 bytes for record write with space compression, not equal to data block size for block read, or greater than data block size for block write). If a shared segment was requested at assignment, the error will occur if the data buffer specified on record I/O is in the same area as the shared segment or if the shared segment is not used when doing block I/O.
85	Invalid random record. On a Block-I/O request to a non-contiguous file, the random record number specified on a Random-I/O request does not correspond to the first sector of a data block. On a Write request, no data is transferred. On a Read request, the data block is transferred and the random record number in the IOS parameter block is updated to contain the logical sector number corresponding to the first sector in the data block that contained the requested sector.
86	Invalid parameter block address. User's IOS block not in his segment space or is not in read/write segment; or address is odd.
87	Protect code error. Write protected file targeted by Write request. Volume-Read request made by non-owner of volume.
88	Configuration parameter block error.

#### DEVICE INDEPENDENT ERRORS

- C1 Buffer overflow. On a Record-Read request, user's buffer is not large enough to accommodate entire record; or for variable length record requiring space expansion, record is larger than 256 bytes.
- C2 End of file. Attempted to read starting beyond EOF or attempted to write logical record or block starting beyond EOF plus one.
- C3 End of volume. On device or volume I/O, attempted to start read beyond end of device; or on Write request, attempted to write beyond end of device.
- C4 Invalid or empty FAB. File integrity destroyed due to possible system failure.

TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

zz	DESCRIPTION
C5	Invalid transfer for device. Device does not support option requested (e.g., Binary or Image request to device that does not support binary or image).
C6	Break condition. I/O was terminated by BREAK key.
C7	Internal I/O error caused by system problem.
C8	FAB/data block conflict. Data altered in shared segment specified at assignment. Possibly caused by system problem.
C9	Record does not exist. Logical record specified on Record-Update or Delete request does not exist. Record with key specified on Random-Read request does not exist.
CA	Record already exists. Write-Record request specified existing record.
CB	Record overflow. Data altered in shared segment specified at assignment extending segment length beyond end of data block. Possibly caused by system problem.
CC	Key error or FAB/key conflict. Data altered in shared segment specified at assignment, causing keys to be out of sequence.
CD	Insufficient disk space. No space available on volume for FAB or data block or contiguous file space.
CE	Unrecoverable file error. Prior error caused file to be left in such a state that no more I/O can be done. File must be closed.
CF	File space allocation/deallocation conflict. FAB of file in error.

C

DEVICE DEPENDENT ERRORS

- D1 Unrecoverable device error.
- D2 Data compare error.
- D3 Sector protect error.
- D5 MVME300 interface error detected. Error occurs only when the GPIB driver detects a Service Request event (SRQ) on the bus and, after polling all devices, finds no device requesting service and that the bus SRQ is still TRUE.

TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

ZZ	DESCRIPTION
D8	TMS9913A detected bus handshake error. Error indicates that the ERR bit was set in the TMS9914A interrupt status register. Refer to the TMS9914A Data Manual for more detail.
D9	Command not valid for current GPIB driver mode. Error occurs if a command is issued that conflicts with the current GPIB mode. An example is to issue a Device Control Command (i.e., Clear Device "n") but the GPIB system is currently in Talker/Listener mode. (This may be the result of a previous command or from another controller on the bus taking control.) Error also occurs if an attempt is made to do an I/O operation to an invalid device secondary address.
DA	Command invalid for busable device. Error occurs when the user attempts to set either the serial poll or parallel poll status for a device other than the bus (MVME300). (The status set commands are valid only for the bus and cause the MVME300 to respond appropriately when polled by another active controller.)
DB	GPIB I/O driver runtime error. Error is returned if the driver detects an invalid function or command value in the IOS parameter block for the current command.
DC	Invalid secondary address for pending I/O operation. Error occurs if the user issues a bus secondary address I/O request with a secondary address different from the one pending from the currently active controller (e.g., the active controller addressed the MVME300 to talk on secondary address 30 but the user now issues a talk on secondary address 24). Error also occurs if the reverse sequence occurs (i.e., the user issues a secondary address I/O request; the controller in charge addresses the MVME300 with a different secondary address).
DD	Invalid request for pending interrupt. Error occurs if the GPIB I/O driver detects an interrupt from the MVME300 out of sequence. This may occur because of a bus malfunction, the active controller cancelling an I/O request to the MVME300, or some other invalid sequence preventing the GPIB driver from completing the current I/O operation.
DE	Error occurs if a command issued to the bus requires system controller capabilities and the bus is not so configured. Error also occurs if an attempt is made to set the Parallel Poll Status (PPS) and the PP configuration has not been set yet. Another possible cause of this error is to issue a Take-Control or Request-Control command and the ATN line is already true. This indicates that the bus is already in control or some other device is currently in control of the bus.

TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

zz	DESCRIPTION
E1	Device not ready.
E2	Device busy.
E3	Data CRC error.
E4	Write protected device. The diskette has the write protection tab removed.
E5	Deleted data mark detected.
E6	Timeout. Device did not respond within allotted time.
E7	Invalid sector address. Probably system problem. All invalid sector addresses normally detected before device driver is called.
E8	Checksum error/framing error. Data transfer error between MC68000 and Intelligent Peripheral Controller (IPC).
E9	Disk restore error.
EA	Data overrun.
EB	Device status changed. Disk device that had been online went not ready and then ready again. Any files that had been open when this happened must be closed, without performing any more I/O. It is important to not open a disk drive door while any files are open because files can no longer be updated at close time. This may result in lost data because disk updates do not necessarily take place immediately, but may be kept in memory until close.
EC	Track/Sector ID not found. Either the ID header or the Data Mark has not been found by the disk controller. This can also occur if a track/sector has been formatted as an alternate and has been read directly.
ED	Address mark CRC error.
EE	Seek error.
EF	Bad sector

**C**

TABLE C-2. Input/Output Service (IOS) Error Messages (cont'd)

zz	DESCRIPTION
<u>CHANNEL ERRORS</u>	
F1	Channel busy.
F2	Channel Direct Memory Access (DMA) error.
F3	Unrecoverable channel error.
F4	Controller error.
F5	Device configuration.
F6	DMA bus error.
F7	DMA mapping error.
F8	DMA controller error.

APPENDIX D  
ERROR MESSAGE HANDLER CODES

Errors internal to the Error Message Handler (EMH) program will have the same basic header format as all other EMH messages. The <phrase> part of the header line is:

EMH ERRORzz \$xxxxxxxx

where:

- zz is one of the following internal error numbers.  
xxxxxxxx is a <binary key> entry in Appendix E.

D

zz MEANING

- 0 Available for future use.
- 1 Error encountered changing the user's output LUN.
- 2 Error encountered trying to assign ERRORMSG.SY. This occurs if an exclusive read or write assignment exists on the system volume.
- 3 Error encountered trying to read the user's <binary key> value. The <binary key> value does not exist in the ERRORMSG.SY file, but it could be added.
- 4 Error encountered trying to read the <binary key> value of sentinel code "K".
- 5 Available for future use.
- 6 Error encountered attempting to write to the user's output device.
- 7 Error due to nested "K" sentinels.
- 8 The error message being built expanded beyond its allocated buffer (such that the source creating the message was destroyed).
- 9 Error encountered receiving LUN from user.
- 10 Error encountered sending LUN back to user.
- 11 Error encountered trying to move the caller's A0 parameter block or the caller's plug pool.
- 12 The plug pool size specified by the caller exceeds the maximum allowed size of 96. The \$xxxxxxxx value is the plug pool size requested.

- 13 On examination of the plug pool, an insufficient number of plug pool delimiters was discovered. The \$xxxxxxxx value is the number of delimiters originally requested.

When a user is executing multiple tasks from a given terminal, it is possible that an error message will not be displayed. This occurs if one task has the output device in a busy state, requesting input, and another task would like to output an error message to that device.

## APPENDIX E

### ERRORMSG.SA FILE

The **ERRORMSG.SA** file is read by the Error Message File Generator (EMFGEN) program, which then creates the **ERRORMSG.SY** file that is used at runtime by the EMH program. Entry into the file is by the first column of numbers, called the **<binary key>**.

The contents of the ERRORMSG.SA file are listed below. However, this listing differs from the actual ERRORMSG.SA file, in that the <binary key>s are rearranged here in ascending numerical order.

For a further description of the ERRORMSG.SA file, its format and sentinels, refer to the EMFGEN write-up in the M68000 Family VERSAdos System Facilities Reference Manual.

```

*                                ERROR MESSAGE LINE FORMAT
*
*      COLUMNS      CONTENT
*      1           * TREATS REMAINDER OF LINE AS A COMMENT
*      1- 8        KEY VALUE OF ERROR MESSAGE IN HEX
*      9           SPACE DELIMITER
*      10-89       ERROR MESSAGE TEXT AND SUBSTITUTION SENTINELS
*
*      BITS          ERROR CODE KEY VALUE FORMAT
*      0-15         INTERPRETATION (of register D0 following trap call)
*      16-26         ERROR STATUS CODE
*      27-30         DIRECTIVE NUMBER
*      31           TRAP NUMBER (0 for non-trap related errors)
*                  RESERVED (For internal error classification)
*
*      BIT POSITIONS
*
*      3 3 2 2    2 2 2 2    2 2 2 2    1 1 1 1    1 1 1 1    1 1 0 0    0 0 0 0    0 0 0 0
*      1 0 9 8    7 6 5 4    3 2 1 0    9 8 7 6    5 4 3 2    1 0 9 8    7 6 5 4    3 2 1 0
*
*      X X X X    X X X X    X X X X    X X X X    X X X X    X X X X    X X X X    X X X X
*
*      SUBSTITUTION SENTINEL FORMAT IS \Soo[11][kkkk]
*      Where \
*              is the required Sentinel Flag
*              S      is one of the Sentinel Codes explained below
*              oo     is the decimal offset from reg A0 to be converted
*                      and inserted at this point in the error message.
*                      A0 normally points at an FHS or IOS block.
*              11     is a length value required only for Sentinel C
*              kkkk   is a key value required only for Sentinel K

```

\* SUBSTITUTION SENTINEL CODE INTERPRETATIONS  
 \* \Boo Convert 1 byte at offset oo from A0 to Decimal ASCII  
 \* \Woo " 2 bytes " " "  
 \* \Loo " 4 " " " "  
 \* \Xoo " 1 byte " " " Hex ASCII  
 \* \Yoo " 2 bytes " " " "  
 \* \Zoo " 4 " " " "  
 \* \Coo11 Copy 11 bytes " " String length = 11  
 \* \Too Translate code at offset oo from A0 to ASCII prose from this file.  
 \* Error Message ttoocccc contains the prose where  
 \* tt = original TRAP code + TRAP #4 (bit 29)  
 \* oo = offset from A0 of code  
 \* cccc = code value to be interpreted  
 \* \Aoo Convert register A0 to Hex ASCII (oo is always 00)  
 \* \Ioo Copy ?? bytes at offset 0 from Text Plug #oo until an illegal  
 \* ASCII char (FF) flags end of string.  
 \* \Kkkkk Copy all of Error Message #0000kkkk expanding any of it embedded  
 \* sentinels at this point before continuing the interpre-  
 \* tation of this message. CRLF issued automatically before  
 \* the insertion of message kkkk.  
 \*  
 \* \Doo Eliminate the standard error message text of taskname, session  
 \* number, user key value, error originator, and the variable message  
 \* separator (\*\*) from the error message to be displayed.

---

#### TYPICAL PROSE TO CAUSE AN ERROR MESSAGE FROM THIS FILE TO BE PRINTED

\* . . .  
 \* LEA IOSBLK,A0 Where IOSBLK is usually a FHS or IOS  
 \* TRAP #n Where n is usually 2 or 3  
 \* BEQ CONT WHERE CONT IS LABEL FOR GOOD TRAP CALL  
 \* MOVEM.L DO/A0,ERRPBLK Save regs in ERRPBLK  
 \* LEA ERRPBLK,A0 Where ERRPBLK is in the format below  
 \* MOVE.L #2,DO Error handler is directive #2  
 \* TRAP #4 Invokes the Error handler  
 \* . . .  
 \* ERRPBLK DC.L 0 USER REG DO CONTAINS ERMSG KEY VALUE  
 \* ERRPBA0 DC.L 0 USER REG A0 POINTS AT I/O CONTROL BLK  
 \* ERRPOPT DC.B 0 ERROR OPTIONS FUTURE USE  
 \* ERRPLDF DC.B 0 USER LDFLUN LUN FOR SCREEN  
 \* ERRPQUY DC.B 0 FUTURE USE  
 \* ERRPCDF DC.B 0 FUTURE USE  
 \* ERRPLUGB DC.L 0 BEGINNING OF USER TEXT PLUG POOL  
 \* ERRPLUGE DC.L 0 END OF USER TEXT PLUG POOL  
 \* This plug pool may contain multiple text strings delimited by Hex FF's.  
 \* Maximum pool length is 96 bytes. Sentinels \I01,\I02 .... etc. cause the  
 \* deblocked text to be inserted into the basic error message format. Plugs  
 \* are numbered beginning with one so \I03 accesses the text following the  
 \* second FF delimiter. This plug capability provides the caller with a way  
 \* to include variable message content from a source external to the parm  
 \* block addressed by register A0.

---

```
*-----  
* The utility EMFGEN converts the leading ASCII hex number to a 4 byte  
* binary key value in the process of creating the indexed sequential  
* file ERRORMSG.SY used by the TRAP #4 ERROR MESSAGE HANDLER.  
* NOTE : ERROR MESSAGE 00000000 IS A NULL  
* AND CAN BE USED IN CONJUNCTION WITH ERRPLUGS TO PRINT  
* ONLY THE MESSAGE CONTAINED IN THE PLUGPOOL  
* THIS MERELY RELIEVES THE CALLER FROM DEFINING IOS BLOCKS  
*-----
```

```
*-----  
* ERRORMSG FILE GENERATION UTILITY EMFGEN MESSAGES  
*-----  
*  
* KEY VALUES MUST BE HEX -- UPPER LIMIT IS 000000FF  
*
```

```
00000000 \I01\DO0  
*  
0000000C CMD=\T00 OPT=\T02 LU=\B05  
0000000D CMD=\T00 OPT=\T02 LU=\B05 DEVICE=\C0604  
0000000E CMD=\T00 OPT=\T02 LU=\B05 PSN=\Z08 DEVICE=\C0604  
0000000F FILE=\C0604:\W10.\C1208.\C2008.\C2802  
00000010 CMD=\T00 OPT=\T02 LU=\B05 PSN=\Z36  
00000011 USE DEFAULT VOLUME = \C0804:\W14.\C1608.  
00000012 USER NUMBER = \W34  
00000013 USER TASK = \C2404  
00000014 SESSION = \C0404  
00000015 TERMINAL = \C2804  
00000016 TASK = \C0004, SESSION = \C0404  
00000017 TASK = \C0004, SESSION = \L04  
00000018 -----> BREAK!  
*  
*-----
```

E

```
*-----  
* NON-TRAP RELATED MESSAGES  
*  
* REFERENCE IOE.SA FOR APPROPRIATE EQUATES  
*
```

```
00000100 INVALID ENTRY  
00000101 SUBSTITUTION CAUSED BUFFER OVERFLOW  
00000102 ARGUMENT NOT FOUND  
00000103 INVALID OPTION  
00000104 INSUFFICIENT MEMORY  
00000105 OPTION CONFLICT  
00000106 COMMAND LINE SYNTAX ERROR  
00000107 INVALID DEVICE NAME FOR REQUEST  
*-----
```

\*  
\* THESE MESSAGES MUST BE THE FIRST MESSAGES IN THE FILE  
\*  
000002FE KEY VALUE \IOI WILL NOT BE ADDED TO FILE \*\* INPUT ERROR\DOO  
000002FF KEY VALUE \IOI ERROR MESSAGE ADDED BUT TRUNCATED TO 84 BYTES\DOO  
\*  
\*-----  
\*  
\* USER SESSION MANAGEMENT MESSAGES  
\*  
00000300 \D00\IOI START SESSION \C0404 USER = \W42  
00000301 \D00\IOI END SESSION \C0404 USER = \W42  
00000302 \D00\K0018  
00000303 SYSTEM VOLUME = \C0004:\K0011\K0012\K0013\K0014\K0015\DOO  
00000304 OPTION(S) SET = \I01\DOO  
00000305 \DOO  
00000306 \D00\IOI  
00000307 \D00\C0004 \C1204: LOADED  
00000308 \D00\C0004 \L12: LOADED  
00000309 \D00\C0004 \C0404: STOPPED  
0000030A \D00\C0004 \L04: STOPPED  
0000030B \D00\C0004 \C0404: CONTINUED  
0000030C \D00\C0004 \L04: CONTINUED  
0000030D \D00\C0004 \C0404: TERMINATED  
0000030E \D00\C0004 \L04: TERMINATED  
0000030F \D00\C0004 \C0404: ABORTED  
00000310 \D00\C0004 \L04: ABORTED  
000003II .\DOOLOGON REJECTED, LOGGED OFF  
00000312 \DOOWARNING: NO."<" NOT EQUAL TO NO.">"  
00000313 \DOO----->CAUTION: YOU WILL CHANGE PASSWORD FOR USER = 0 <-----  
00000314 \DOOER: NOT USER = 0  
00000315 \DOOER: "\C0008" COMMAND NOT FOUND  
00000316 \DOOER: "\C0604" VOLUME NOT FOUND  
00000317 \DOOER: NO. ARGUMENTS EXCEEDS STACK SPACE  
00000318 \DOOER: TASK NOT FOUND  
00000319 \DOOER: INVALID TASKNAME  
0000031A \DOOER: LUN \C0001 NOT ASSIGNED  
0000031B \DOOER: CANNOT BE CONTINUED, MUST BE STARTED  
0000031C \DOOER: MUST BE STARTED INDIVIDUALLY BY TASKNAME  
0000031D \DOOER: NESTING LEVEL EXCEEDS NO. LUNS PER TASK  
000003IE \DOOER: NO ROOM IN RETURN STACK SPACE (TOO MANY ARGUMENTS)  
000003IF \DOOER: DEVICE NOT ALLOWED  
00000320 \DOOER: "IF" LEVEL EXCEEDED  
0000032I \DOOER: /=ENDIF's EXCEED /=IF's  
00000322 \DOOER: CHAIN COMMAND SYNTAX  
00000323 \DOORX=\Y00 RA=\Y02 RD=\Y04  
00000324 \DOOER: BATCH NOT ALLOWED IN BATCH MODE  
00000325 \DOOER: LOGON TERMINAL NOT AVAILABLE IN BATCH MODE  
00000326 \DOOER: BATCH SESSION NUMBER  
00000327 \DOOBATCH SESSION NOT FOUND  
00000328 \DOOER: USER NUMBER NOT FOUND  
00000329 \DOOER: NOT ALLOWED IN BATCH MODE

0000032A \D00\CO404: QUEUED  
0000032B \D00\CO404: RUNNING  
0000032C \D00\CO404: DONE STATUS = \Y02:\T02  
0000032D \D00ER: BATCH QUEUE FULL  
0000032E \D00BATCH JOB \CO404 CANCELLED  
0000032F \D00ER: RECORD NOT FOUND  
00000330 \D00ER: USER NO. NOT FOUND  
00000331 \D00ER: INVALID USER NO.  
00000332 \D00ER: MUST BE IN CHAIN MODE  
00000333 \D00ER: VALUE SIZE TOO BIG  
00000334 \D00ER: INVALID FILE DESCRIPTOR  
00000335 \D00ER: NO CHANGE TO VOLUME,USER NUMBER, OR CATALOG  
00000336 \D00ER: DEFAULT VOLUME NOT CHANGED  
00000337 \D00ER: OPTION LETTERS ARE A-O ONLY  
00000338 \D00ER: NOT ALLOWED ON LINE, SUBMIT IN BATCH MODE  
00000339 \D00ER: INVALID LU NUMBER  
0000033A \D00ER: FILE/DEVICE MISSING  
0000033B \D00ER: ACCESS PERMISSION  
0000033C \D00ER: VALUES REVERSED  
0000033D \D00ER: YOU FAILED IN YOUR ATTEMPT TO CRASH THE SYSTEM  
0000033E \D00ER: COMMAND SYNTAX  
0000033F \D00ER: FIELD SIZE EXCEEDED  
00000340 \D00ER: FILE WAS NOT ASSIGNED  
00000341 \D00ER: NUMERICAL CONVERSION ERROR

\*

\*

#### **PROGRAM INFORMATION**

\* PASCAL ERROR MESSAGES

00001001 Case index out of range\DO0  
00001002 Value out of range\DO0  
00001004 Integer division by zero\DO0  
00001008 Bus error - bad pointer or stack/heap overflow\DO0  
00001010 Stack/heap overflow\DO0  
00001011 Address error - bad pointer or stack/heap overflow\DO0  
00001012 Memory allocation error during processing Z option\DO0  
00001022 Read past end of file\DO0  
00001028 Illegal filename\DO0  
00001031 Integer expected in text file\DO0  
00001032 Real expected in text file\DO0  
00001033 Boolean expected in text file\DO0  
00001040 Too many files in use\DO0  
00001041 Option error in 'reset' or 'rewrite'\DO0  
00001042 Too many command line fields\DO0  
00001043 File not open at input\DO0  
00001044 File not open at output\DO0  
00001051 Real number out of range in text file\DO0  
00001052 Attempt to enable 6809 floating point trap\DO0  
00001053 Attempt to set 6809 floating point exception\DO0  
00001054 Attempt to set 6809 floating point precision mode\DO0  
00001062 Invalid base for integer in text file\DO0  
00001063 Invalid digit for based integer in text file\DO0  
00001070 Attempt to take NAN(0)\DO0  
00001099 Illegal TRAP #14 error code - internal Pascal error\DO0

\*

\*

\*

\* PASCAL FLOATING POINT ERROR MESSAGES

00002000 No invalid operation error\DO0  
00002100 Illegal SQRT argument\DO0  
00002200 (+infinity) + (-infinity) in affine mode\DO0  
00002300 Conversion of a not-a-number to an integer\DO0  
00002400 Illegal division\DO0  
00002500 An argument was a trapping not-a-number\DO0  
00002600 Unordered condition tested by predicate other than = or <>\DO0  
00002700 Projective closure use of +/- infinity\DO0  
00002800 0 \* infinity\DO0  
00002900 Illegal REM arguments\DO0  
00002A00 Binary-to-decimal or decimal-to-binary conversion out of range\DO0  
00002B00 Moved single precision unnormalized to double precision\DO0  
00002C00 Returned unnormalized number to single or double precision\DO0  
00002D01 Invalid operation\DO0  
00002002 Overflow\DO0  
00002004 Underflow\DO0  
00002008 Division by zero\DO0  
00002010 Inexact result\DO0  
00002020 Overflow on conversion from floating point to integer\DO0  
00002040 Reserved exponent value seen as input operand\DO0  
\*

\*

\*

\* TRAP #1 RELATED MESSAGES

08010003 NONEXISTENT TARGET TASK (GTSEG)\K0016  
08010005 SEGMENT TABLE FULL (GTSEG)  
08010006 DUPLICATE SEGMENT NAME (GTSEG)  
08010007 MEMORY REQUESTED DOES NOT EXIST (GTSEG)  
08010008 INSUFFICIENT MEMORY (GTSEG)  
0801000A NON-DORMANT TARGET TASK (GTSEG)  
0801000B LOGICAL ADDRESS CONFLICT (GTSEG)  
08020003 NONEXISTENT TARGET TASK (DESEG)\K0016  
08020007 NONEXISTENT SEGMENT NAME (DESEG)\K0016  
0802000A NON-DORMANT TARGET TASK (DESEG)  
08040005 SEGMENT TABLE FULL (ATTSEG)  
08040006 DUPLICATE SEGMENT NAME (ATTSEG)  
08040007 NONEXISTENT SEGMENT NAME (ATTSEG)\K0016  
08040008 LOGICAL ADDRESS CONFLICT (ATTSEG)  
08060003 SOURCE TASK NOT FOUND (MOVELL)  
08060007 DESTINATION TASK NOT FOUND (MOVELL)  
08060009 USER TO SYSTEM TASK NOT ALLOWED (MOVELL)  
0806000B ADDRESSES DIFFERENT EVEN/ODD BOUNDARY (MOVELL)  
08090003 TARGET TASK NOT FOUND (RCVSA)  
080B0006 DUPLICATE TASKNAME (CRTCB)  
080B0008 INSUFFICIENT MEMORY (CRTCB)  
080D0003 TASK DOES NOT EXIST (START)\K0016  
080D0023 TASK DOES NOT EXIST (START)\K0017  
080D000A TASK NOT DORMANT (START)

08100003 TARGET TASK DOES NOT EXIST (TERMT)\K0016  
08100023 TARGET TASK DOES NOT EXIST (TERMT)\K0017  
08100006 TARGET TASK ALREADY IN TERMINATION (TERMT)  
08100009 USER TASK CAN NOT TERM SYSTEM TASK OR SELF\K0016  
08170003 TARGET TASK DOES NOT EXIST (TSKATTR)\K0016  
08170023 TARGET TASK DOES NOT EXIST (TSKATTR)\K0017  
0817000A TASK IS TERMINATING (TSKATTR)\K0016  
08190003 TARGET TASK DOES NOT EXIST (STOP)\K0016  
08190023 TARGET TASK DOES NOT EXIST (STOP)\K0017  
08190006 TARGET TASK ALREADY STOPPED  
08190009 USER TASK CAN NOT STOP SYSTEM TASK\K0016  
\*  
\*  
\*-----  
\*  
\* IOS ERROR MESSAGES  
\*

1000000C INSUFFICIENT SYSTEM SPACE \K000C  
10000082 INVALID FUNCTION \K000C  
10000083 INVALID LOGICAL UNIT \K000C  
10000084 INVALID DATA BUFFER \K000C BUFF=\Z12  
10000085 INVALID RANDOM RECORD \K000C RRN=\Z08  
10000086 INVALID PARAM BLOCK ADDRESS A0=\A00  
10000087 PROTECT CODE ERROR \K000C  
100000C1 BUFFER OVERFLOW \K000C  
100000C2 END OF FILE \K000C  
100000C3 END OF VOLUME \K000C  
100000C4 INVALID OR EMPTY FAB \K000C  
100000C5 INVALID TRANSFER FOR DEVICE \K000C  
100000C6 BREAK CONDITION \K000C  
100000C7 INTERNAL IO ERROR \K000C  
100000C8 FAB/DATA BLOCK CONFLICT \K000C  
100000C9 RECORD DOES NOT EXIST \K000C  
100000CA RECORD ALREADY EXISTS \K000C  
100000CB RECORD OVERFLOW/TOO MANY RECORDS IN DATA BLOCK \K000C  
100000CC KEY ERROR, FAB KEY CONFLICT \K000C  
100000CD DISK SPACE FULL \K000D  
100000D1 UNRECOVERABLE DEVICE ERROR \K000D  
100000D2 DATA COMPARE ERROR \K000E  
100000D3 SECTOR PROTECT ERROR \K000E  
100000D4 DEVICE NOT MOUNTED  
100000E1 DEVICE NOT READY \K000D  
100000E2 DEVICE BUSY \K000D  
100000E3 DATA CRC ERROR \K000E  
100000E4 WRITE PROTECTED DEVICE \K000D  
100000E5 DELETED DATA MARK DETECTED \K000E  
100000E6 TIMEOUT \K000D  
100000E7 INVALID SECTOR ADDRESS \K000D  
100000E8 CHECKSUM ERROR \K000D  
100000E9 DISK RESTORE ERROR \K000D  
100000EA DATA OVERRUN \K000D  
100000EB DEVICE STATUS CHANGED \K000D  
100000EC TRACK/SECTOR ID NOT FOUND \K000E  
100000ED ADDRESS MARK CRC ERROR \K000E

. 100000EE SEEK ERROR \K000D  
100000EF BAD SECTOR \K000E  
100000F1 CHANNEL BUSY \K000D  
100000F2 CHANNEL DMA ERROR \K000D  
100000F3 CHANNEL UNRECOVERABLE CHANNEL ERROR \K000D  
100000F4 CONTROLLER ERROR \K000D  
100000F5 DEVICE CONFIGURATION ERROR /K000D  
100000F6 DMA BUS ERROR /K000D  
100000F7 DMA MAPPING ERROR /K000D  
100000F8 DMA CONTROLLER ERROR /K000D  
\*  
\*-----  
\*

\* FHS ERROR MESSAGES

18000002 INVALID COMMAND \K000C  
18000003 INVALID LOGICAL UNIT \K000C  
18000004 INVALID OR NONEXISTENT VOLUME \K000C VOLN=\C0604  
18000005 DUPLICATE FILENAME \K000C \K000F  
18000006 FILE DESCRIPTOR ERROR \K000C \K000F  
18000007 PROTECT CODE ERROR \K000C \K000F  
18000008 RECORD LENGTH ERROR \K000C \K000F RECL=\W34  
18000009 SHARED SEGMENT ERROR \K000C \K000F  
1800000A INSUFFICIENT DIRECTORY SPACE \K000C \K000F  
1800000B ACCESS PERMISSION ERROR \K000C \K000F  
1800000C INSUFFICIENT SYSTEM SPACE \K000C \K000F  
1800000D ASSIGNMENT ERROR \K000C  
1800000E INVALID DEVICE TYPE \K000C  
1800000F BUFFER OVERFLOW \K000C  
18000010 INVALID TASKNAME \K000C  
18000011 INVALID BUFFER ADDRESS \K000C BUFF=\Z12  
18000012 INVALID FILE TYPE \K000C \K000F  
18000013 INTERNAL FHS ERROR \K000C \K000F  
18000014 INVALID PARAM BLOCK ADDRESS A0=\A00  
18000015 DATA BLOCK LENGTH ERROR \K000C \K000F SIZE=\Z36  
18000016 SIZE ERROR K000C K000F SIZE=\Z36  
18000017 NONEXISTENT FILENAME \K000C \K000F  
18000018 END OF DIRECTORY \K000C  
18000019 KEY LENGTH ERROR \K000C \K000F SIZE=\Z36  
1800001A FAB LENGTH ERROR \K000C \K000F SIZE=\Z36  
1800001B DEFAULT VOLUME NOT DEFINED \K000C  
1800001C INVALID STATE FOR COMMAND  
1800001D USER NOT OWNER OR ADMINISTRATOR  
180000CD DISK SPACE FULL \K000C \K000F  
180000D1 UNRECOVERABLE DEVICE ERROR \K000C \K000F  
180000D2 DATA COMPARE ERROR \K0010 \K000F  
180000D3 SECTOR PROTECT ERROR \K0010 \K000F  
180000E1 DEVICE NOT READY \K000C \K000F  
180000E2 DEVICE BUSY \K000C \K000F  
180000E3 DATA CRC ERROR \K0010 \K000F  
180000E4 WRITE PROTECTED DEVICE \K000C \K000F  
180000E5 DELETED DATA MARK DETECTED \K0010 \K000F  
180000E6 TIMEOUT K000C \K000F  
180000E7 INVALID SECTOR ADDRESS \K000C \K000F

180000E8 CHECKSUM ERROR \K000C \K000F  
180000E9 DISK RESTORE ERROR \K000C \K000F  
180000EA DATA OVERRUN \K000C \K000F  
180000EB DEVICE STATUS CHANGED \K000C \K000F  
180000EC TRACK/SECTOR ID NOT FOUND \K0010 \K000F  
180000ED ADDRESS MARK CRC ERROR \K0010 \K000F  
180000EE SEEK ERROR \K000C \K000F  
180000EF BAD SECTOR \K0010 \K000F  
180000FI CHANNEL BUSY \K000C \K000F  
180000F2 CHANNEL DMA ERROR \K000C \K000F  
180000F3 UNRECOVERABLE CHANNEL ERROR \K000C \K000F  
180000F4 CONTROLLER ERROR \K000C \K000F  
180000F5 DEVICE CONFIGURATION ERROR \K000C \K000F  
180000F6 DMA BUS ERROR \K000C \K000F  
180000F7 DMA MAPPING ERROR \K000C \K000F  
180000F8 DMA CONTROLLER ERROR \K000C \K000F

## \* TRAP #4 RELATED MESSAGES

20000001 UNDEFINED DIRECTIVE NUMBER  
20000012 LOAD SEGMENT LOGICAL ADDRESS EXCEEDS SEGMENT BOUNDARIES  
20000013 FILE REFERENCED IS NOT A LOAD FILE

\*        \*\* TRANSLATE TABLE FOR NON TRAP MESSAGES

2002A006 CANCELLED WAITING IN QUEUE  
2002C001 NORMAL TERMINATION FROM RUNNING  
2002C006 CANCELLED WHILE RUNNING  
2002C009 CANCELLED DUE TO BREAK  
2002C010 ABORTED DUE TO BUS ERROR (ADDRESS)  
2002C011 TERMINATED DUE TO BUS ERROR (ADDRESS)

\* TRANSLATE TABLE FOR IOSFCT FIELD

```
30000001 READ
30000002 WRITE
30000004 OUTPUT WITH INPUT
30000008 UPDATE
30000010 DELETE
30000020 FORMAT
30000101 POSITION
30000102 REWIND
30000104 TEST I/O COMPLETE
30000108 WAIT
30000110 HALT I/O
30000120 BREAK
.
```

\*  
\* TRANSLATE TABLE FOR FHSCMD FIELD  
\*  
38000001 CHECKPOINT  
38000002 DELETE  
38000004 CLOSE  
38000008 CHANGE PROTECT CODES  
38000010 RENAME  
38000020 CHANGE ACCESS  
38000040 ASSIGN  
38000080 ALLOCATE  
380000C0 ALLOCATE/ASSIGN  
38000108 FETCH DEFAULT VOLUME  
38000110 CHANGE LU  
38000120 FETCH DEVICE MNEMONICS  
38000140 FETCH DIR. ENTRY  
38000180 RETRIEVE ATTRIBUTES  
38000204 DISPLAY SPOOLER QUEUE  
38000208 CHANGE COPIES  
38000210 PRINT FILE  
38000220 CHANGE FORMS  
38000240 CONTINUE SPOOLER JOB  
38000280 CANCEL SPOOLER JOB  
38008001 SET DEFAULT VOLUME  
\*  
\*-----

APPENDIX F  
PASCAL RUNTIME CODES

If xyz has the form lyzz or 2yzz, then it is a Pascal runtime error code as described below. If it is a bus error or an address error, it may be possible to successfully execute a program by specifying a larger stack/heap.

An error code of the form 10zz is one of the following:

- 1001 Case index out of range.
- 1002 Value out of range -- found via range checking.
- 1004 Integer division by zero.
- 1008 Bus error -- typically caused by invalid pointer value; can also be caused by stack/heap overflow.
- 1010 Stack/heap overflow.
- 1011 Address error -- typically caused by invalid pointer; can also be caused by stack/heap overflow.
- 1012 Memory allocation error during processing Z option.
- 1022 Read past EOF.
- 1028 Illegal filename.
- 1031 Integer expected -- when reading from a text file.
- 1032 Real expected -- when reading from a text file.
- 1033 Boolean expected -- when reading from a text file.
- 1040 Too many files in use or unrecognizable device ID.
- 1041 Option error in "reset" or "rewrite".
- 1042 Too many command line fields -- maximum of 16 files + I + 0 may be specified.
- 1043 File not open at input.
- 1044 File not open at output.
- 1051 Real number out of range -- when reading from a text file.
- 1052 Attempt to enable MC6809 floating point trap.

- 1053 Attempt to set MC6809 floating point exception.
- 1054 Attempt to set MC6809 floating point precision mode.
- 1062 Invalid base -- when reading integer from a text file.
- 1063 Invalid digit -- when reading based integer from a text file.
- 1070 Attempt to take NaN(0).
- 1099 Illegal TRAP #14 error code -- internal Pascal error.

**NOTE**

If the error is 1008, 1010, or 1011, it may be possible to execute the program successfully by running it with a larger stack/heap (specifying option Z).

If xyz is of the form 2yzz, it indicates the occurrence of a standard floating point exception where y is the invalid operation code and zz indicates which exception(s) occurred.

The value of y (hexadecimal) is:

- 0 No invalid operation error.
- 1 Square root of a negative number, infinity in projective mode, or an unnormalized number.
- 2 (+infinity) + (-infinity) in affine mode.
- 3 Tried to convert a not-a-number to a binary integer.
- 4 In division: 0/0, infinity/infinity, or unnormalized divisor and the dividend is not zero and is finite.
- 5 One of the input arguments was a trapping not-a-number.
- 6 Unordered condition tested by predicate other than equal or not equal.
- 7 Projective closure use of +/- infinity.
- 8 0 x infinity.
- 9 In "rem": first argument is infinite or second argument is zero or unnormalized.

- A Input operand for binary-to-decimal or decimal-to-binary conversion out of range.
- B Tried to move a single precision unnormalized number to a double precision destination.
- C Tried to return an unnormalized number to single or double precision (invalid result).

The floating point exceptions that have occurred since the last time they were cleared are indicated in zz as a sum of the following (hexadecimal):

- 1 Invalid operation (refer to code in y above)
- 2 Overflow
- 4 Underflow
- 8 Division by zero
- 10 Inexact result
- 20 Integer overflow -- on conversion from floating point to integer
- 40 Reserved exponent value seen as input operand

F

If zz indicates that an invalid operation occurred (its lowest order bit is on) but the value of y is zero, then there was probably an error in one of the transcendental functions. This error could be any of the following:

- a. Sine, cosine, or tangent of infinity or a not-a-number.
- b. Logarithm of a negative number, infinity, or a not-a-number.
- c. Arctangent of a not-a-number.
- d. Exponential of infinity or a not-a-number.

THIS PAGE INTENTIONALLY LEFT BLANK.

F

## APPENDIX G

### LINKAGE EDITOR ERROR CODES

Error messages generated by the linkage editor are of the form:

\*\* ERROR xxx - description

where:

xxx            is a three-digit error number.

description    is a general description of the type of error.

Errors are divided into classes where each class has only one error message. The class of an error can be determined by the first digit of the 3-digit error number. Thus, whenever an error occurs, its particular error number is printed along with the general error message for its class. The various error classes and their specific errors are:

#### Class 1 - Illegal Command Line

The general message for errors of this class is:

\*\* ERROR 1xx - Illegal command line

This error indicates there is something wrong with the command line used to invoke the linkage editor. If an error of this class occurs, the linkage editor will not proceed but instead, control will be returned to the operating system. The specific errors of this type are:

- 133        No filename:    While scanning the command line, a filename specification was expected but not found.
- 134        Illegal filename:    This indicates a general syntax error was encountered while attempting to scan a filename specification.
- 135        Illegal device name:    A syntax error was encountered while scanning the device name field of a filename specification.
- 136        Illegal volume name:    A syntax error was encountered while scanning the volume name field of a filename specification.
- 137        No user number:    While scanning a filename specification, a user number was expected but not found.
- 138        Illegal user number:    A syntax error was encountered while scanning the user number in a filename specification.

- 139 Illegal catalog name: A syntax error was encountered while scanning the catalog name in a filename specification.
- 140 Illegal extension: A syntax error was encountered while scanning the extension in a filename specification.
- 141 Illegal key(s): A syntax error was encountered while scanning the key(s) in a filename specification.
- 142 Filename already specified: The same file was specified twice in the list of input files on the command line.
- 143 Illegal option specification: A syntax error was encountered while scanning the option field of the command line.
- 144 Option conflict: A conflict exists between two or more options specified on the command line. For example, two mutually exclusive options (e.g., O and R) may have been specified.
- 145 No output filename specified: No output filename was specified on the command line. When relocatable output is requested (via the R option), an output file must be specified on the command line.
- 147 Illegal option syntax for the W option: A syntax error was encountered while scanning the W option on the command line.
- 148 Option conflict: The bit width chosen for addressable memory conflicts with the type of output module chosen.

#### G Class 2 - Illegal User Command Line

The general message for errors of this class is:

\*\* ERROR 2xx - Illegal user command line

This error indicates that there is an error in a user command line specified to the linkage editor. When an error of this class occurs, the offending user command is ignored and the user is prompted for another command. The various errors of this class are:

- 200 Command line too long: The user command line specified is too long. The maximum length of a user command is 132 characters.
- 201 Illegal character: An illegal character was encountered while scanning the user command.
- 202 Illegal command verb: The user has specified an unknown command name.
- 203 Too many arguments: Too many arguments have been specified for the particular command.

- 204 Not enough arguments: Too few arguments were given for the particular command.
- No digits in number expected: While scanning the user command, a number was expected but was not found.
- Illegal number: While scanning a number, an illegal digit was found. For example, the digit "9" was found in an octal number.
- 208 Section number: A section number specified was not between 0 and 9 inclusive.
- 209 Illegal section number range: The specification of a range of section numbers was not of the proper form. For example, the first section number must be less than or equal to the second section number.
- 210 Section number already specified: The same section number was specified twice in a START or SEGMENT command.
- 211 Section number already assigned to a segment: A section number specified in a SEGMENT command has already been assigned to a different segment.
- 212 Section not assigned to a segment: A section specified in a START command has not yet been assigned to a segment.
- 213 Not all sections assigned to same segment: All the section numbers specified in a START command have not been assigned to the same segment.
- 214 No name: While scanning a user command, a symbol, module, segment, or taskname was expected but was not found.
- 215 Illegal name: A syntax error was encountered while scanning a symbol, module, segment, or taskname. Symbol and module names must be from one to ten alphanumeric characters, with the first character being alpha; segment and tasknames must be from one to four alphanumeric characters, also with the first character being alpha.
- 216 Undefined symbol: A symbol specified in the user command has not been encountered as an XDEF in the relocatable object modules input so far.
- 217 Command not legal for absolute output: This command may not be used when creating a load module.
- 218 Command not legal for relocatable output: This command may not be specified when creating a relocatable object module.
- 219 All segments used: An attempt was made to create more than four segments via SEGMENT commands. There is a maximum of four segments.
- 220 Command not legal for S-record output: This command may not be used when creating an S-record module.

- 221 Segment does not exist: The segment specified in the command does not have any sections assigned to it and, therefore, does not exist yet.
- 222 No more **SEGMENT** commands allowed: No more **SEGMENT** commands may be specified at this point.
- 223 Illegal segment start address: The address given as the starting address of a segment is not legal. The last byte of the starting address of a segment must be \$00.
- 224 Illegal segment end address: The address given as the ending address of a segment is not legal. The last byte of the ending address of a segment must be \$FF.
- 225 Conflicting address space: The address space specified for a segment conflicts with the address space previously specified for another segment.
- 226 Illegal address: A syntax error was encountered while scanning an address in the command line.
- 227 Address out of legal range: The address in a **START**, **ENTRY**, or **COMLINE** command is not in the range of the segment referred to by the command.
- 228 Illegal attribute specification: A syntax error was encountered while scanning the attributes in a **SEGMENT** command.
- 231 Module name already specified: The same module name was specified twice for the same file in an **INPUT** command.
- 232 Illegal command line length: The length specified in a **COMLINE** command is not between 1 to 256, inclusive.
- 233 No filename: While scanning the command line, a filename specification was expected but not found.
- 234 Illegal filename: This indicates a general syntax error was encountered while attempting to scan a filename specification.
- 235 Illegal device name: A syntax error was encountered while scanning the device name field of a filename specification.
- 236 Illegal volume name: A syntax error was encountered while scanning the volume name field of a filename specification.
- 237 No user number: While scanning a filename specification, a user number was expected but not found.
- 238 Illegal user number: A syntax error was encountered while scanning the user number in a filename specification.
- 239 Illegal catalog name: A syntax error was encountered while scanning the catalog name in a filename specification.

- 240 Illegal extension: A syntax error was encountered while scanning the extension in a filename specification.
- 241 Illegal key(s): A syntax error was encountered while scanning the key(s) in a filename specification.
- 242 Filename already specified: The same filename was specified twice in the same INPUT command.
- 243 Symbol name already specified: The same symbol name was specified more than once in an XDEF command.
- 244 Illegal entry point or command line address: The address specified in a COMLINE or ENTRY command is not even -- it must be even.
- 245 Illegal version/revision number: The version or revision number in an IDENT command is not between 0 and 255, inclusive.
- 246 Description too long: The description in an IDENT command is too long. The maximum length for a description is 80 characters.
- 247 Symbol already exists: The symbol specified in a DEFINE command already exists in the external symbol definition table. Symbols may not be redefined with this command.
- 248 Illegal option or attribute: An illegal (undefined) directive option or task attribute was specified in an OPTIONS or ATTRIBUTES command, respectively.
- 249 Illegal priority: A priority specified in a PRIORITIES command is not a number between 0 and 255, inclusive.
- 250 Illegal session number: An ASCII-encoded session number (one preceded by a single quote) in a TASK or MONITOR command is not a number between \$0 and \$FFFF, inclusive.
- 251 Buffer length error: A user command line was entered that exceeded 132 characters in length.
- 252 Buffer overflow: A user command line was entered employing argument substitution expanded to greater than 132 characters after substitution of arguments.
- 253 Argument not found: Argument substitution was attempted for an argument that has not been defined.

Class 3 - Errors in Processing a Relocatable Object File

The general message for errors of this class is:

\*\* ERROR 3xx - Processing relocatable object file - File: fffffff>

An error in this class indicates that an error was encountered while processing the relocatable object file named "fffffff". This indicates that the file being processed was not a relocatable object file to begin with or it was a relocatable object file that has been damaged in some way. Either way, the linkage editor cannot proceed, so all class 3 errors are considered fatal and cause an immediate halt to further processing. The various errors of this class are:

- 301 Module(s) not found: A module or modules explicitly requested in an INPUT command cannot be found in the specified file.
- 302 Module already processed: An attempt has been made to process a module with the same name as one that has already been processed from this file.
- 303 Premature end of file: The EOF in an object module has been encountered before it should have been.
- 306 Illegal relocatable record type: The record type of a relocatable record is not from 1 to 4, inclusive.
- 307 Error extracting name from ID record: An error was encountered while trying to extract the module name from an ID record.
- 308 Illegal language type in ID record: An illegal language type was found in the ID record of a module.
- 309 No ESD (external symbol definition) records: A relocatable object module does not contain any ESD records.
- 310 Illegal ESD type: The type of an ESD is not between 0 to 10, inclusive.
- 311 Error extracting name from ESD: An error was encountered while attempting to extract the name of a symbol or common area from an ESD.
- 312 Illegal address in ESD: An illegal address was encountered while processing an ESD.
- 313 Illegal length in ESD: An illegal length was encountered while processing an ESD.
- 314 ESD record too short: An ESD record is not long enough to contain all the information it should contain.
- 315 Error extracting address/length in general: A general error was encountered while attempting to extract an address or length from any type of record.

- 316 Illegal end record: The end record of a module is not of a legal form.
- 317 Illegal section number in end record: The section number specified in an end record is either not between 0 to 17, inclusive, or the section does not exist.
- 318 No end of module record: No end record was found at the end of a relocatable object module.
- 319 Section type conflict: The type of a section is not the same between different relocatable object modules.
- 320 Section length overflow: A section has become too long. The maximum length of a section is \$1000000 bytes.
- 321 Symbol ESD after non-symbol ESD: A symbol ESD was found after a non-symbol ESD in a module. In every module, all symbol ESDs must appear before the first non-symbol ESD.

#### Class 4 - Memory Allocation Errors

The general message for this class of errors is:

\*\* ERROR 4xx - Memory allocation conflict

This message indicates that allocation of memory is impossible given the specified input files, sections, segments, etc. An error of this class is fatal and causes an immediate halt to further processing. The various types of this class are:

- 400 Memory conflict: A conflict has occurred that prohibits the allocation of a relocatable section.
- 401 Out of memory: All memory has been allocated but there are still relocatable sections that need allocating.
- 402 Cannot place absolute section: A conflict has occurred that prohibits the placing of an absolute section where it is required to reside.
- 403 Section too long: After adding in the lengths of its associated common sections, a section has become larger than the maximum \$1000000 bytes.
- 404 Output file too large: The resulting load module file would be too large to fit in currently available disk space.
- 405 Maximum address exceeded: Allocating a relocatable section would require logical addresses past the maximum of allowable address (\$FFFFFF or \$FFFFFF, depending on W=24 or W=28).

### Class 5 - Pass Two Fatal Errors

The general message for errors of this class is:

\*\* ERROR 5xx - Pass two fatal error - File: fffffff

This error indicates that an error has occurred during pass two processing of the file named "ffffff" that prohibits further processing to take place. This would indicate that the relocatable object modules in the file that are needed for input have changed since pass one or there is an error in a relocatable object module that was not detected during pass one, such as a bad data record. If an error of this class occurs, all processing is stopped. The various types of this error are:

- 500 ESD index overflow: A relocatable object module being input requires more than 255 ESD indices. One ESD index is required for each relocatable section, absolute section, common section, and external symbol reference.
- 501 Error calculating entry point address: An error has occurred while attempting to calculate the beginning execution address of the resulting load module.
- 502 Error calculating command line address: An error has occurred while attempting to calculate the address of where to store the invoking command line.
- 503 Illegal common name: The name of a non-existent common section was encountered in a relocatable object module.
- 504 Illegal section number: The number of a non-existent section was encountered in a relocatable object module.
- 505 Illegal symbol name: The name of a non-existent symbol was encountered in a relocatable object module.
- 506 Illegal command line ESD: An error was encountered in processing a command line ESD.
- 507 Data record too short: A data record does not contain as much data as it should.
- 508 Data record too long: A data record contains too much data.
- 509 Illegal data record ESDID: The External Symbol Definition Index (ESDID) in a data record that indicates where the data from that record is to go refers to a non-existent ESDID for that module.
- 511 Illegal ESDID within relocation data: An ESDID within relocation data refers to a non-existent ESDID for that module.
- 512 Illegal offset size: The flag of a set of relocation data indicates that the size of the offset is not between 0 to 4 bytes, inclusive.

- 513 Module not found: A module processed in pass one was not found in pass two.
- 514 Absolute section not found: During pass two, an ESD was encountered for an absolute section for which no ESD was encountered in pass one.
- 515 ESD index overflow: This error occurs during pass two when creating a relocatable object module if the module requires more than 255 ESD indices. One index is required for each relocatable section, absolute section, common section, and external symbol reference.

#### Class 6 - Individual Error Messages

There is no general error message for this class but instead each type of error has its own individual message. All the class 6 errors are fatal errors and thus stop further processing. The individual messages are:

##### **\*\* ERROR 600 - Unresolved references**

This error occurs at the end of pass one and indicates that unresolved external references still exist, which makes further processing impossible. The error message is preceded by a list of the still unresolved references.

##### **\*\* ERROR 601 - No input files specified**

This error, at the end of pass one, indicates that the user did not designate any input files on the invoking command line or in any user commands. Because of this, the linkage editor has nothing to process and must therefore abort.

##### **\*\* ERROR 602 - Fatal input error**

This error indicates that a fatal I/O error has occurred during input.

##### **\*\* ERROR 603 - Fatal output error**

This error indicates that a fatal I/O error has occurred during output.

**G**

#### Class 8 - Internal Errors

The general message for errors of this class is:

##### **\*\* ERROR 8xx - Internal error**

A message of this type indicates that an error has occurred internal to the linkage editor.

THIS PAGE INTENTIONALLY LEFT BLANK.

G

## APPENDIX H

### LINKAGE EDITOR WARNING CODES

Warning messages are used to indicate non-fatal errors that are recoverable. Thus, whenever one of these types of errors occurs, a warning message is generated and processing continues normally. Warning messages are of the general form:

**\*\* WARNING 7xx - description**

where:

7xx            is a three-digit warning number that begins with 7.

description    is a description of the error that occurred.

The various warning messages and their meanings are:

**\*\* WARNING 700 - Undefined symbol: <symbol name>**

This warning indicates that the symbol "<symbol name>" that was specified in an XDEF command is not in the current table of XDEFed symbols. In other words, it has not appeared as an XDEF in any of the relocatable object modules processed so far. The processing of the XDEF command will proceed as if the offending symbol "<symbol name>" were not in the command.

**\*\* WARNING 701 - Multiply defined symbol: <symbol name>**

This warning indicates that the symbol "<symbol name>" is multiply defined. This means that the symbol was XDEFed in more than one relocatable object module (defined in more than one place). The action taken will be to use only the first occurrence of "<symbol name>" as its defining occurrence and to ignore all later definitions.

**\*\* WARNING 702 - No END command, assumed**

This warning indicates that when accepting user commands from a file, the EOF was found before an END command was encountered. The action taken will simply be to manufacture a fake END command and proceed.

**\*\* WARNING 703 - Section not assigned, section not loaded: nn**

This warning indicates that during the processing of a relocatable object module in pass one, a section definition was found for section number "nn" which had not been assigned to a segment. The section definition is ignored and processing continues.

**\*\* WARNING 704 - Conflicting XREF's: <symbol name>**

This message indicates that two XREFs to the same symbol "<symbol name>" conflict in that they require that the symbol be defined in different sections. The action taken will be to allow the symbol "<symbol name>" to be defined in any section and continue processing.

**\*\* WARNING 705 - Relocated data too large, value truncated: at \$<address>**

This message indicates that while processing relocation data for data to be put at hex address "<address>", the resulting value was too large to fit into the number of words set aside. The action taken will be to truncate enough from the high order so that the result will fit.

**\*\* WARNING 706 - Section not assigned, symbol not loaded: <symbol name>**

This message indicates that during the processing of a relocatable object module in pass one, an XDEF was encountered for the symbol "<symbol name>". However, the section the symbol was defined in had not been assigned to a segment. The XDEF will be ignored and processing will continue.

**\*\* WARNING 707 - Module appears more than once: <module name> in <filename>**

This message indicates that during the processing of the file named "<filename>" in pass two, more than one module was encountered with the same name, "<module name>". The first module encountered is the one that will be processed. All later modules with the same name will be ignored.

This could occur if a library file contained two modules with the same name and a search of the file during pass one indicated that the second module was needed. However, in pass two the first module with the desired name will be processed, and when the second module with the same name is encountered, this warning message will be generated. This could be serious because the data in the first module will be processed in pass two according to the information acquired from the second module during pass one. Every module in a file should have a unique name.

**\*\* WARNING 709 - Unable to include in debug file <filename>**

This message indicates that the linker attempted to append an .RS file to its .DB file, which it could not find.

APPENDIX I  
TASK MANAGEMENT DIRECTIVE CODESYY DIRECTIVE

- 01 Allocate segment
- 02 Deallocate a segment
- 03 Transfer a segment
- 04 Attach shareable segment
- 05 Grant shared segment access
- 06 Move logical to logical
- 07 Declare segment shareable
- 08 Get snapshot of System Trace Table (TRC)
- 09 Receive segment attributes
- 0A Get target task's ID
- 0B Create a Task Control Block (TCB)
- 0C Get target task's name and session number
- 0D Start task
- 0E Abort task (self)
- 0F Terminate task (self)
- 10 Terminate task (not self)
- 11 Suspend execution
- 12 Resume suspended task
- 13 Wait for wakeup
- 14 Wakeup a waiting task
- 15 Delay some number of milliseconds
- 16 Relinquish control
- 17 Return task attributes
- 18 Set current priority
- 19 Stop task
- 1A Announce exception vectors
- 1B Announce trap vectors
- 1C Return task information
- 1D Request periodic activation
- 1E Perform delay, wait-for-event, and wait functions
- 1F Allocate an Asynchronous Service Queue (ASQ)
- 20 Deallocate ASQ
- 21 Set ASQ status
- 22 Read event from ASQ
- 23 Put event in someone else's queue
- 24 Wait for event
- 25 Return from event
- 26 Get an event
- 29 Attach to semaphore
- 2A Wait on semaphore
- 2B Signal semaphore
- 2C Detach semaphore
- 2D Create semaphore
- 2E Detach all semaphores
- 33 Establish self as trap server
- 34 Detach server function

35 Set server request status  
36 Acknowledge service request  
3A Configure new directive  
3C Channel management request  
3D Configure Interrupt Service Routine (ISR)  
3E Simulate interrupt

yy DIRECTIVE

40 Attach to exception monitor  
41 Detach from exception monitor  
42 Set exception monitor mask  
43 Receive task state  
44 Put task state  
45 Execute task under exception monitor  
48 Move from physical to logical address  
49 Set date and time  
4A Get date and time  
4B Flush user cache

REASON FOR DIRECTIVE FAILURE

01 Directive number in D0 is not assigned  
02 Parameter block address not in user's address space  
03 Target task does not exist  
04 Required table does not exist  
05 Table is full - no room for new entry  
06 Duplicate request - function cannot be performed twice  
07 Entry not found in table or list  
08 Memory space not available  
09 Caller does not have permission to complete function  
0A State of target task not valid for this directive  
0B Request conflicts with existing table entries  
0C Address of some parameter not in user's address space  
0D Address of some parameter not in user's address space  
0E Function is not enabled  
0F Invalid options specified in parameter block  
10 Invalid count or length field in parameter block

\* Sometimes, the directive failure is described more specifically in the directive description in the M68000 Family Real-Time Multitasking Software User's Manual.

## APPENDIX J

### ASSEMBLY ERROR CODES

Error messages generated during an assembly may originate from the assembler or from Pascal or the operating system environment. Assembler-generated messages may be of two forms:

- a. \*\*\*\*\* ERROR xxx -- nnnn

where:

xxx is the number of the error (defined in the list in this appendix).

nnnn is the number of the line where the previous error occurred.

Errors indicate that the assembler is unable to interpret or implement the intent of a source line.

- b. \*\*\*\*\* ERROR xxx -- nnnn

where:

xxx is the number of the error (defined in the list in this appendix).

nnnn is the number of the line where the previous error occurred.

Warnings may indicate possible recoverable errors in the source code, or that a more optimal instruction format is possible.

<u>ERROR CODE</u>	<u>MEANING OF ERROR</u>
<u>SYNTACTIC ERRORS</u>	
200	Illegal character (in context).
201	Size code/extension is invalid.
202	Syntax error.
203	Size code/extension not allowed.
204	Label required.
205	End directive missing.
206	Register ranges must be specified in increasing order (e.g., A1-A3, D0-D7, FP2-FP6).
207	A and D registers can't be intermixed in a MOVEM register range.
208	In the register pair Di:Dj, Di must be distinct from Dj.

ERROR CODEMEANING OF ERROROPERAND/ADDRESS MODE ERRORS

210 Missing operand(s).  
211 Too many operands for this instruction.  
212 Improper termination of operand field.  
213 Illegal address mode for this operand.  
214 Illegal forward reference.  
215 Symbol/expression must be absolute.  
216 Immediate source operand required.  
217 Illegal register for this instruction.  
218 Illegal operation on a relative symbol.  
219 Memory shifts may only be single bit.  
220 Invalid shift count.  
221 Invalid section number.  
222 "{o:w}" or "{k}" expression not allowed here.  
223 Too many registers found in an M68020 addressing mode form.  
224 Too many expressions found in an M68020 addressing mode form.  
225 More than one pair of [ ]s found in an M68020 addressing mode form.  
226 "{o:w}" expression expected in this instruction.

SYMBOL DEFINITION

230 Attempt to redefine a reserved symbol.  
231 Attempt to redefine a macro; new definition ignored.  
232 Attempt to redefine the command line location.  
233 Command line length must be > 0; ignored.  
234 Redefined symbol.  
235 Undefined symbol.  
236 Phasing error on pass 2.  
237 Start address must be in this module, if specified.  
238 Undefined operation (opcode).  
239 Named common symbol may not be XDEF.

DATA SIZE RESTRICTIONS

250 Displacement size error.  
251 Value too large.  
252 Address too large for forced absolute short.  
253 Byte mode not allowed for this opcode.  
254 Multiplication overflow.  
255 Division by zero.  
256 Value out of range.  
257 Branch to odd address detected.

ERROR CODEMEANING OF ERRORMACRO ERRORS

- 260 Misplaced MACRO, MEXIT, or ENDM directive.  
261 Macro definitions may not be nested.  
262 Illegal parameter designation.  
263 A period may occur only as the first character in a macro name.  
264 Missing parameter reference.  
265 Too many parameters in this macro call.  
266 Reference precedes macro definition.  
267 Overflow of input buffer during macro text expansion.

CONDITIONAL ASSEMBLY ERRORS

- 270 Unexpected ENDC.  
271 Bad ending to conditional assembly structure (ENDC expected).

STRUCTURED SYNTAX ERRORS

- 280 Misplaced structured control directive (ignored).  
281 Missing ENDI.  
282 Missing ENDF.  
283 Missing ENDW.  
284 Missing UNTIL.  
285 Unresolved syntax error in the preceding parameterized structured control directive; recovery attempted with the current line.  
286 "=" expected; characters up to "=" ignored.  
287 "<" expected; characters up to "<" ignored.  
288 ">" expected; characters up to ">" ignored.  
289 DO expected; remainder of line ignored.  
290 THEN expected; remainder of line ignored.  
291 TO or DOWNT0 expected; TO assumed.  
292 Illegal condition code specified.

MISCELLANEOUS

- 300 Implementation restriction.  
301 Too many relocatable symbols referenced.  
      (linkage editor restricted)  
302 Relocation of byte field attempted.  
303 Absolute section of length zero defined (link error).  
304 Nested INCLUDE files not allowed; ignored.  
305 Filename required in operand field.

<u>ERROR CODE</u>	<u>MEANING OF ERROR</u>
310	Illegal syntax for P-nnnnn option -- option ignored.
311	Illegal processor number for P-nnnnn option -- option ignored.
312	Processor option does not agree with command line option -- option ignored.
313	This directive is not valid for the processor that is currently specified.
314	An OFFSET block must be followed by an ORG or SECTION before more code is generated.

FLOATING POINT ERRORS

- 330 Type (size) incompatibility exists between an operand and the opcode size.
- 331 Exponent string is too long. Will be truncated on the right; that will almost certainly return the wrong value.
- 332 A non-decimal character was found in the decimal string. The character will be ignored and the conversion will continue although the results should be highly suspect.
- 333 The input decimal string is too big to be represented in the specified size. Infinity or the largest positive or negative number will be returned, depending on the sign and current rounding mode.
- 334 The input decimal string is too small to be represented in the specified size. It was demoralized or reduced to zero.

INTERNAL ERRORS

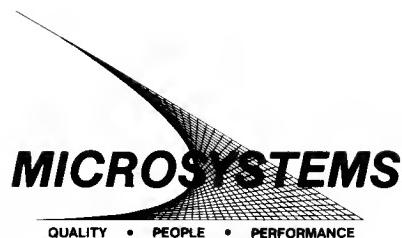
- 400
- .
- .
- .
- 499

<u>ERROR CODE</u>	<u>MEANING OF ERROR</u>
<u>SOURCE CODE NOT OPTIMAL OR RECOVERABLE ERRORS</u>	
500	This byte will be sign-extended to 32 bits.
501	Missing parameter reference in macro source.
502	Too many parameters in this macro call.
503	Warning -- processor type should not be changed after any executable code is generated.
504	Warning -- processor type should not be changed after the user once sets it.
550	This branch could be short.
551	This absolute address could be short.
552	This expression/displacement could be represented.
553	Warning -- This instruction may cause a branch to an odd address.
<u>FLOATING POINT WARNINGS</u>	
700	Mantissa string is too long. It will be truncated after 17 digits.
701	Decimal strings can be guaranteed accurate only to double precision, in the worst case. In the best case, they are accurate to extended precision.
702	The decimal string to FP conversion was inexact (some rounding error occurred).
703	Use of the L, D, X, and P extensions in the FSGLDIV and FSGLMUL instructions may result in a loss of accuracy.
<u>NOTE</u>	
If more than 10 errors occur in one line, the message:	
***** too many errors on this line	
will be generated.	

THIS PAGE INTENTIONALLY LEFT BLANK.

J

# **SUGGESTION/PROBLEM REPORT**



**Motorola welcomes your comments on its products and publications. Please use this form.**

To: Motorola Inc.  
Microsystems  
2900 S. Diablo Way  
Tempe, Arizona 85282  
Attention: Publications Manager  
Maildrop DW164

Product: \_\_\_\_\_ Manual: \_\_\_\_\_

**COMMENTS:**

Please Print

Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_ Division \_\_\_\_\_

Street \_\_\_\_\_ Mail Drop \_\_\_\_\_ Phone \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**For Additional Motorola Publications**  
Literature Distribution Center  
616 West 24th Street  
Tempe, AZ 85282  
(602) 994-6561

**Four Phase/Motorola Customer Support, Tempe Operations**  
(800) 528-1908  
(602) 438-3100





**MOTOROLA Semiconductor Products Inc.**

P.O. BOX 20912 • PHOENIX, ARIZONA 85036 • A SUBSIDIARY OF MOTOROLA INC.